

# American Radiators

Ratings, Dimensions  
and Data

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**AMERICAN RADIATOR COMPANY**

DIVISION OF AMERICAN RADIATOR & STANDARD SANITARY CORPORATION

40 West 40th Street, New York, N. Y.



# AMERICAN RADIATORS

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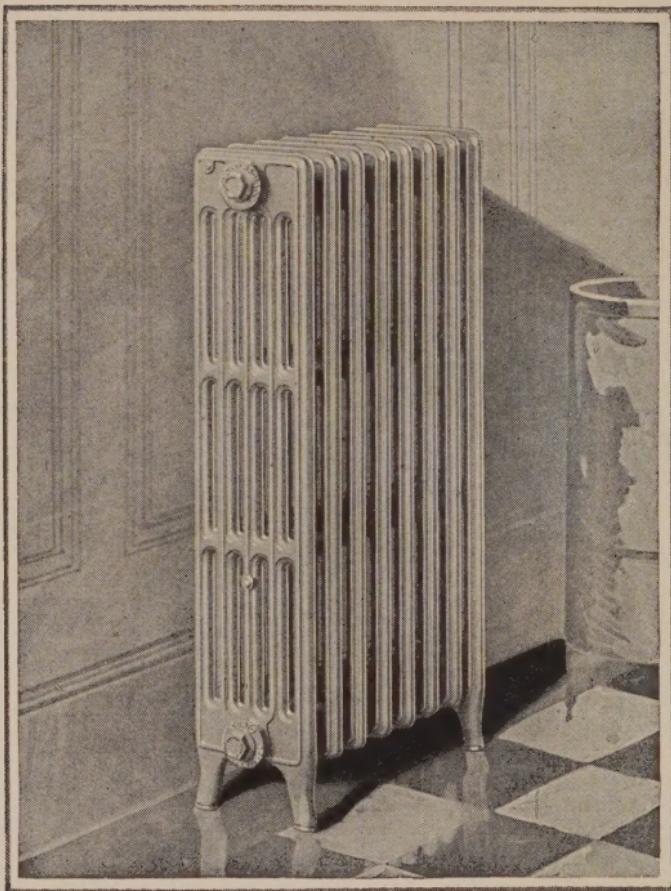
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# AMERICAN RADIATORS

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## AMERICAN CORTO RADIATORS



Patented

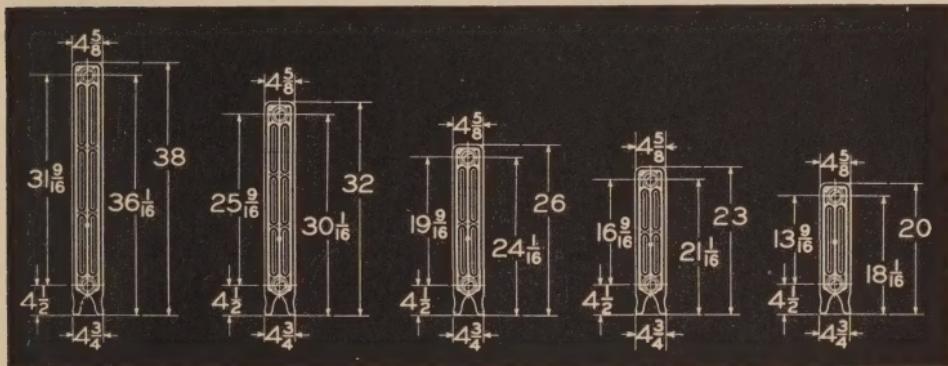
### THE RADIATOR CLASSIC

NAMED after its famous artist-engineer designer, M. Courtot, the American Corto Radiator is today the most popular radiator in America and in fact throughout the world.

# AMERICAN RADIATORS

## AMERICAN CORTO RADIATORS

Three-Tube—Dimensions and Ratings



WIDTH,  $4\frac{5}{8}$  INCHES; CENTERS,  $2\frac{1}{2}$  INCHES

| Number<br>of<br>Sections | *<br>Length<br>$2\frac{1}{2}$ Inches<br>Per<br>Section | HEATING SURFACE—SQUARE FEET<br>Based upon Engineering Standard of 240 B.t.u.<br>emission per Square Foot per Hour |   |  |   |  |
|--------------------------|--|---|---|--|---|--|
|                          |  | 20-inch<br>Height<br>$1\frac{1}{4}$ Sq. Ft.<br>Per Section  | 23-inch<br>Height<br>2 Sq. Ft.<br>Per Section | 26-inch<br>Height<br>$2\frac{1}{3}$ Sq. Ft.<br>Per Section | 32-inch<br>Height<br>3 Sq. Ft.<br>Per Section | 38-inch<br>Height<br>$3\frac{1}{2}$ Sq. Ft.<br>Per Section |
| 2                        | 5  | 3 1/2   | 4   | 4 2/3  | 6   | 7  |
| 3                        | 7 1/2  | 5 1/4   | 6   | 7  | 9   | 10 1/2   |
| 4                        | 10   | 7   | 8   | 9 1/3  | 12  | 14   |
| 5                        | 12 1/2   | 8 3/4   | 10  | 11 2/3   | 15  | 17 1/2   |
| 6                        | 15   | 10 1/2  | 12  | 14   | 18  | 21   |
| 7                        | 17 1/2   | 12 1/4  | 14  | 16 1/3   | 21  | 24 1/2   |
| 8                        | 20   | 14  | 16  | 18 2/3   | 24  | 28   |
| 9                        | 22 1/2   | 15 3/4  | 18  | 21   | 27  | 31 1/2   |
| 10                       | 25   | 17 1/2  | 20  | 23 1/3   | 30  | 35   |
| 11                       | 27 1/2   | 19 1/4  | 22  | 25 2/3   | 33  | 38 1/2   |
| 12                       | 30   | 21  | 24  | 28   | 36  | 42   |
| 13                       | 32 1/2   | 22 3/4  | 26  | 30 1/3   | 39  | 45 1/2   |
| 14                       | 35   | 24 1/2  | 28  | 32 2/3   | 42  | 49   |
| 15                       | 37 1/2   | 26 1/4  | 30  | 35   | 45  | 52 1/2   |
| 16                       | 40   | 28  | 32  | 37 1/3   | 48  | 56   |
| 17                       | 42 1/2   | 29 3/4  | 34  | 39 2/3   | 51  | 59 1/2   |
| 18                       | 45   | 31 1/2  | 36  | 42   | 54  | 63   |
| 19                       | 47 1/2   | 33 1/4  | 38  | 44 1/3   | 57  | 66 1/2   |
| 20                       | 50   | 35  | 40  | 46 2/3   | 60  | 70   |
| 21                       | 52 1/2   | 36 3/4  | 42  | 49   | 63  | 73 1/2   |
| 22                       | 55   | 38 1/2  | 44  | 51 1/3   | 66  | 77   |
| 23                       | 57 1/2   | 40 1/4  | 46  | 53 2/3   | 69  | 80 1/2   |
| 24                       | 60   | 42  | 48  | 56   | 72  | 84   |
| 25                       | 62 1/2   | 43 3/4  | 50  | 58 1/3   | 75  | 87 1/2   |
| 26                       | 65   | 45 1/2  | 52  | 60 2/3   | 78  | 91   |
| 27                       | 67 1/2   | 47 1/4  | 54  | 63   | 81  | 94 1/2   |
| 28                       | 70   | 49  | 56  | 65 1/3   | 84  | 98   |
| 29                       | 72 1/2   | 50 3/4  | 58  | 67 2/3   | 87  | 101 1/2  |
| 30                       | 75   | 52 1/2  | 60  | 70   | 90  | 105  |

**TAPPINGS**—1 1/2 inches top and bottom. Bushed for steam or water as per specifications.

Can be supplied on special order with 6-inch legs, or without legs at no extra charge. For height of loop section only, subtract (3") inches from total height as shown above.

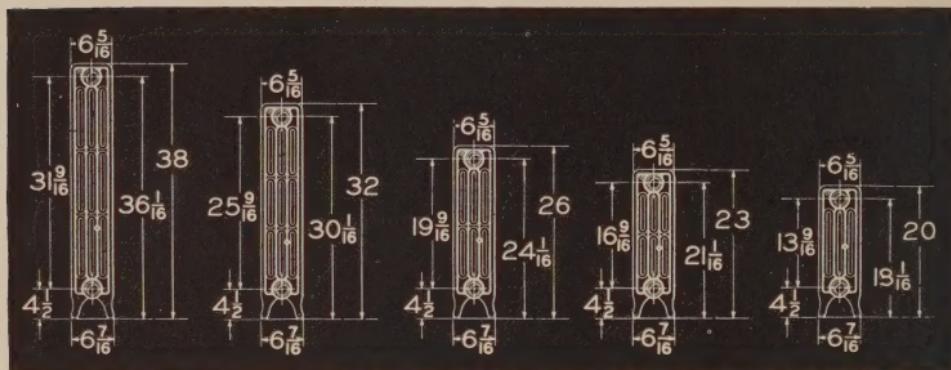
**CONNECTIONS**—Both steam and water—extra heavy 1 1/2-inch right and left threaded nipples at top and bottom.

\* Add 1/2 inch to length for each bushing.

# AMERICAN RADIATORS

## AMERICAN CORTO RADIATORS

Four-Tube—Dimensions and Ratings



WIDTH,  $6\frac{5}{16}$  INCHES; CENTERS,  $2\frac{1}{2}$  INCHES

| Number<br>of<br>Sections | Length<br>$2\frac{1}{2}$ Inches<br>Per<br>Section | HEATING SURFACE—SQUARE FEET<br>Based upon Engineering Standard of 240 B.t.u.<br>emission per Square Foot per Hour |  |  |  |  |
|--------------------------|---|---|--|--|--|--|
|                          |   | 20-inch<br>Height<br>$2\frac{1}{4}$ Sq. Ft.<br>Per Section  | 23-inch<br>Height<br>$2\frac{1}{2}$ Sq. Ft.<br>Per Section | 26-inch<br>Height<br>$2\frac{3}{4}$ Sq. Ft.<br>Per Section | 32-inch<br>Height<br>$3\frac{1}{2}$ Sq. Ft.<br>Per Section | 38-inch<br>Height<br>$4\frac{1}{4}$ Sq. Ft.<br>Per Section |
|                          |   |   |  |  |  |  |
| 2                        | 5   | 4 1/2   | 5  | 5 1/2  | 7  | 8 1/2  |
| 3                        | 7 1/2   | 6 3/4   | 7 1/2  | 8 1/4  | 10 1/2   | 12 3/4   |
| 4                        | 10  | 9   | 10   | 11   | 14   | 17   |
| 5                        | 12 1/2  | 11 1/4  | 12 1/2   | 13 3/4   | 17 1/2   | 21 1/4   |
| 6                        | 15  | 13 1/2  | 15   | 16 1/2   | 21   | 25 1/2   |
| 7                        | 17 1/2  | 15 3/4  | 17 1/2   | 19 1/4   | 24 1/2   | 29 3/4   |
| 8                        | 20  | 18  | 20   | 22   | 28   | 34   |
| 9                        | 22 1/2  | 20 1/4  | 22 1/2   | 24 3/4   | 31 1/2   | 38 1/4   |
| 10                       | 25  | 22 1/2  | 25   | 27 1/2   | 35   | 42 1/2   |
| 11                       | 27 1/2  | 24 3/4  | 27 1/2   | 30 1/4   | 38 1/2   | 46 3/4   |
| 12                       | 30  | 27  | 30   | 33   | 42   | 51   |
| 13                       | 32 1/2  | 29 1/4  | 32 1/2   | 35 3/4   | 45 1/2   | 55 1/4   |
| 14                       | 35  | 31 1/2  | 35   | 38 1/2   | 49   | 59 1/2   |
| 15                       | 37 1/2  | 33 3/4  | 37 1/2   | 41 1/4   | 52 1/2   | 63 3/4   |
| 16                       | 40  | 36  | 40   | 44   | 56   | 68   |
| 17                       | 42 1/2  | 38 1/4  | 42 1/2   | 46 3/4   | 59 1/2   | 72 1/4   |
| 18                       | 45  | 40 1/2  | 45   | 49 1/2   | 63   | 76 1/2   |
| 19                       | 47 1/2  | 42 3/4  | 47 1/2   | 52 1/4   | 66 1/2   | 80 3/4   |
| 20                       | 50  | 45  | 50   | 55   | 70   | 85   |
| 21                       | 52 1/2  | 47 1/4  | 52 1/2   | 57 3/4   | 73 1/2   | 89 1/4   |
| 22                       | 55  | 49 1/2  | 55   | 60 1/2   | 77   | 93 1/2   |
| 23                       | 57 1/2  | 51 3/4  | 57 1/2   | 63 1/4   | 80 1/2   | 97 3/4   |
| 24                       | 60  | 54  | 60   | 66   | 84   | 102  |
| 25                       | 62 1/2  | 56 1/4  | 62 1/2   | 68 3/4   | 87 1/2   | 106 1/4  |
| 26                       | 65  | 58 1/2  | 65   | 71 1/2   | 91   | 110 1/2  |
| 27                       | 67 1/2  | 60 3/4  | 67 1/2   | 74 1/4   | 94 1/2   | 114 3/4  |
| 28                       | 70  | 63  | 70   | 77   | 98   | 119  |
| 29                       | 72 1/2  | 65 1/4  | 72 1/2   | 79 3/4   | 101 1/2  | 123 1/4  |
| 30                       | 75  | 67 1/2  | 75   | 82 1/2   | 105  | 127 1/2  |

TAPPINGS—1 1/2 inches top and bottom. Bushed for steam or water as per specifications.

Can be supplied on special order with 6-inch legs, or without legs at no extra charge. For height of loop section only, subtract (3") inches from total height as shown above.

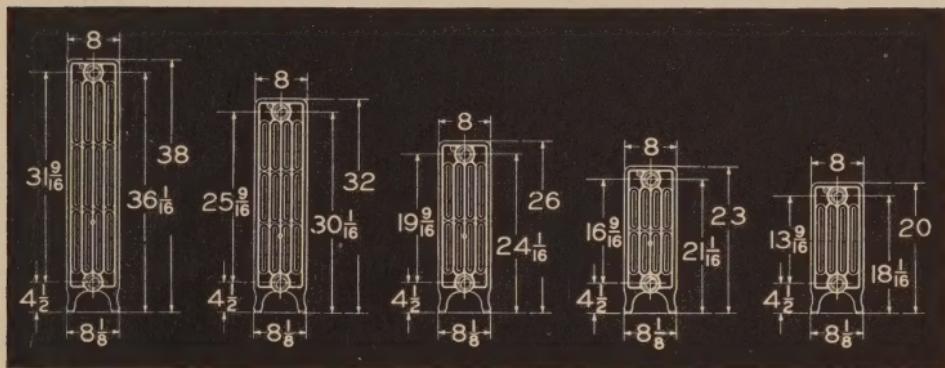
CONNECTIONS—Both steam and water—extra heavy 1 1/2-inch right and left threaded nipples at top and bottom.

\* Add 1/2 inch to length for each bushing.

# AMERICAN RADIATORS

## AMERICAN CORTO RADIATORS

Five-Tube—Dimensions and Ratings



WIDTH, 8 INCHES; CENTERS, 2 1/2 INCHES

| Number<br>of<br>Sections | *<br>Length<br>2 1/2 Inches<br>Per Section | HEATING SURFACE—SQUARE FEET<br>Based upon Engineering Standard of 240 B.t.u.<br>emission per Square Foot per Hour |   |   |   |   |
|--------------------------|--|---|---|---|---|---|
|                          |  | 20-inch<br>Height<br>2 2/3 Sq. Ft.<br>Per Section   | 23-inch<br>Height<br>3 Sq. Ft.<br>Per Section | 26-inch<br>Height<br>3 1/2 Sq. Ft.<br>Per Section | 32-inch<br>Height<br>4 1/3 Sq. Ft.<br>Per Section | 38-inch<br>Height<br>5 Sq. Ft.<br>Per Section |
| 2                        | 5  | 5 1/3   | 6   | 7   | 8 2/3   | 10  |
| 3                        | 7 1/2                                      | 8   | 10 1/2  | 13  | 15  |   |
| 4                        | 10   | 10 2/3  | 12  | 14  | 17 1/3  | 20  |
| 5                        | 12 1/2                                     | 13 1/3  | 15  | 17 1/2  | 21 2/3  | 25  |
| 6                        | 15   | 16  | 18  | 21  | 26  | 30  |
| 7                        | 17 1/2                                     | 18 2/3  | 21  | 24 1/2  | 30 1/3  | 35  |
| 8                        | 20   | 21 1/3  | 24  | 28  | 34 2/3  | 40  |
| 9                        | 22 1/2                                     | 24  | 27  | 31 1/2  | 39  | 45  |
| 10                       | 25   | 26 2/3  | 30  | 35  | 43 1/3  | 50  |
| 11                       | 27 1/2                                     | 29 1/3  | 33  | 38 1/2  | 47 2/3  | 55  |
| 12                       | 30   | 32  | 36  | 42  | 52  | 60  |
| 13                       | 32 1/2                                     | 34 2/3  | 39  | 45 1/2  | 56 1/3  | 65  |
| 14                       | 35   | 37 1/3  | 42  | 49  | 60 2/3  | 70  |
| 15                       | 37 1/2                                     | 40  | 45  | 52 1/2  | 65  | 75  |
| 16                       | 40   | 42 2/3  | 48  | 56  | 69 1/3  | 80  |
| 17                       | 42 1/2                                     | 45 1/3  | 51  | 59 1/2  | 73 2/3  | 85  |
| 18                       | 45   | 48  | 54  | 63  | 78  | 90  |
| 19                       | 47 1/2                                     | 50 2/3  | 57  | 66 1/2  | 82 1/3  | 95  |
| 20                       | 50   | 53 1/3  | 60  | 70  | 86 2/3  | 100   |
| 21                       | 52 1/2                                     | 56  | 63  | 73 1/2  | 91  | 105   |
| 22                       | 55   | 58 2/3  | 66  | 77  | 95 1/3  | 110   |
| 23                       | 57 1/2                                     | 61 1/3  | 69  | 80 1/2  | 99 2/3  | 115   |
| 24                       | 60   | 64  | 72  | 84  | 104   | 120   |
| 25                       | 62 1/2                                     | 66 2/3  | 75  | 87 1/2  | 108 1/3   | 125   |
| 26                       | 65   | 69 1/3  | 78  | 91  | 112 2/3   | 130   |
| 27                       | 67 1/2                                     | 72  | 81  | 94 1/2  | 117   | 135   |
| 28                       | 70   | 74 2/3  | 84  | 98  | 121 1/3   | 140   |
| 29                       | 72 1/2                                     | 77 1/3  | 87  | 101 1/2   | 125 2/3   | 145   |
| 30                       | 75   | 80  | 90  | 105   | 130   | 150   |

**TAPPINGS**—1 1/2 inches top and bottom. Bushed for steam or water as per specifications.

Can be supplied on special order with 6-inch legs, or without legs at no extra charge. For height of loop section only, subtract (3") inches from total height as shown above.

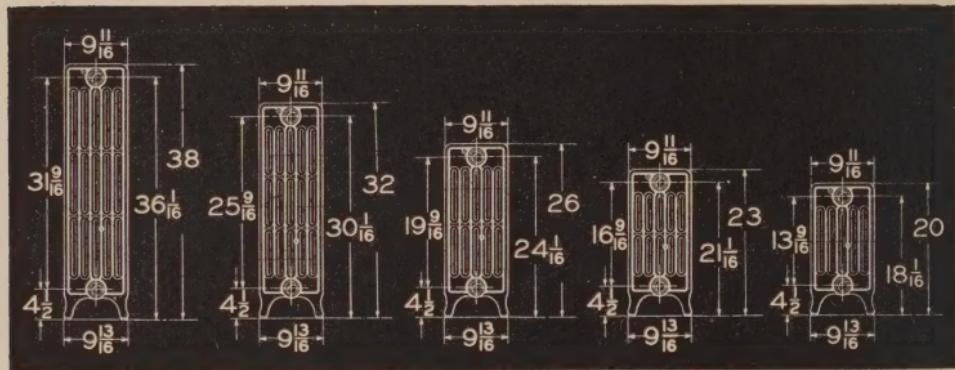
**CONNECTIONS**—Both steam and water—extra heavy 1 1/2-inch right and left threaded nipples at top and bottom.

\* Add 1/2 inch to length for each bushing.

# AMERICAN RADIATORS

## AMERICAN CORTO RADIATORS

Six-Tube—Dimensions and Ratings



WIDTH,  $9\frac{11}{16}$  INCHES; CENTERS,  $2\frac{1}{2}$  INCHES

| Number<br>of<br>Sections | *<br>Length<br>$2\frac{1}{2}$ Inches<br>Per Section | HEATING SURFACE—SQUARE FEET<br>Based upon Engineering Standard of 240 B.t.u.<br>emission per Square Foot per Hour |  |   |   |   |
|--------------------------|---|---|--|---|---|---|
|                          |   | 20-inch<br>Height<br>3 Sq. Ft.<br>Per Section   | 23-inch<br>Height<br>$3\frac{1}{2}$ Sq. Ft.<br>Per Section | 26-inch<br>Height<br>4 Sq. Ft.<br>Per Section | 32-inch<br>Height<br>5 Sq. Ft.<br>Per Section | 38-inch<br>Height<br>6 Sq. Ft.<br>Per Section |
| 2                        | 5   | 6   | 7  | 8   | 10  | 12  |
| 3                        | 7 1/2   | .9  | 10 1/2   | 12  | 15  | 18  |
| 4                        | 10  | 12  | 14   | 16  | 20  | 24  |
| 5                        | 12 1/2  | 15  | 17 1/2   | 20  | 25  | 30  |
| 6                        | 15  | 18  | 21   | 24  | 30  | 36  |
| 7                        | 17 1/2  | 21  | 24 1/2   | 28  | 35  | 42  |
| 8                        | 20  | 24  | 28   | 32  | 40  | 48  |
| 9                        | 22 1/2  | 27  | 31 1/2   | 36  | 45  | 54  |
| 10                       | 25  | 30  | 35   | 40  | 50  | 60  |
| 11                       | 27 1/2  | 33  | 38 1/2   | 44  | 55  | 66  |
| 12                       | 30  | 36  | 42   | 48  | 60  | 72  |
| 13                       | 32 1/2  | 39  | 45 1/2   | 52  | 65  | 78  |
| 14                       | 35  | 42  | 49   | 56  | 70  | 84  |
| 15                       | 37 1/2  | 45  | 52 1/2   | 60  | 75  | 90  |
| 16                       | 40  | 48  | 56   | 64  | 80  | 96  |
| 17                       | 42 1/2  | 51  | 59 1/2   | 68  | 85  | 102   |
| 18                       | 45  | 54  | 63   | 72  | 90  | 108   |
| 19                       | 47 1/2  | 57  | 66 1/2   | 76  | 95  | 114   |
| 20                       | 50  | 60  | 70   | 80  | 100   | 120   |
| 21                       | 52 1/2  | 63  | 73 1/2   | 84  | 105   | 126   |
| 22                       | 55  | 66  | 77   | 88  | 110   | 132   |
| 23                       | 57 1/2  | 69  | 80 1/2   | 92  | 115   | 138   |
| 24                       | 60  | 72  | 84   | 96  | 120   | 144   |
| 25                       | 62 1/2  | 75  | 87 1/2   | 100   | 125   | 150   |
| 26                       | 65  | 78  | 91   | 104   | 130   | 156   |
| 27                       | 67 1/2  | 81  | 94 1/2   | 108   | 135   | 162   |
| 28                       | 70  | 84  | 98   | 112   | 140   | 168   |
| 29                       | 72 1/2  | 87  | 101 1/2  | 116   | 145   | 174   |
| 30                       | 75  | 90  | 105  | 120   | 150   | 180   |

TAPPINGS— $1\frac{1}{2}$  inches top and bottom. Bushed for steam or water as per specifications.

Can be supplied on special order with 6-inch legs, or without legs at no extra charge. For height of loop section only, subtract  $(3\frac{1}{2})$  inches from total height as shown above.

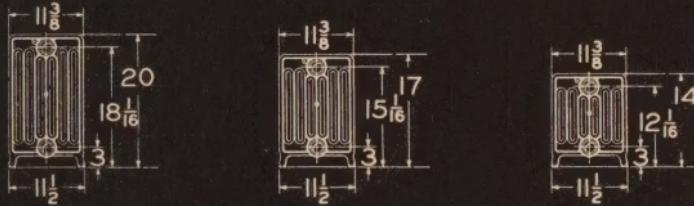
CONNECTIONS—Both steam and water—extra heavy  $1\frac{1}{2}$ -inch right and left threaded nipples at top and bottom.

\* Add  $\frac{1}{2}$  inch to length for each bushing.

# AMERICAN RADIATORS

## AMERICAN CORTO WINDOW RADIATORS

Seven-Tube—Dimensions and Ratings



WIDTH,  $11\frac{3}{8}$  INCHES; CENTERS,  $2\frac{1}{2}$  INCHES

| Number<br>of<br>Sections | *<br>Length<br>$2\frac{1}{2}$ Inches<br>Per Section | HEATING SURFACE—SQUARE FEET<br>Based upon Engineering Standard of 240<br>B.t.u. emission per Square Foot per Hour |   |  |
|--------------------------|---|---|---|--|
|                          |   | 14-inch<br>Height<br>$2\frac{1}{2}$ Sq. Ft.<br>Per Section  | 17-inch<br>Height<br>3 Sq. Ft.<br>Per Section | 20-inch<br>Height<br>$3\frac{2}{3}$ Sq. Ft.<br>Per Section |
| 2                        | 5   | 5   | 6   | $7\frac{1}{3}$   |
| 3                        | $7\frac{1}{2}$                                      | $7\frac{1}{2}$  | 9   | 11   |
| 4                        | 10  | 10  | 12  | $14\frac{2}{3}$  |
| 5                        | $12\frac{1}{2}$                                     | $12\frac{1}{2}$   | 15  | $18\frac{1}{3}$  |
| 6                        | 15  | 15  | 18  | 22   |
| 7                        | $17\frac{1}{2}$                                     | $17\frac{1}{2}$   | 21  | $25\frac{2}{3}$  |
| 8                        | 20  | 20  | 24  | $29\frac{1}{3}$  |
| 9                        | $22\frac{1}{2}$                                     | $22\frac{1}{2}$   | 27  | 33   |
| 10                       | 25  | 25  | 30  | $36\frac{2}{3}$  |
| 11                       | $27\frac{1}{2}$                                     | $27\frac{1}{2}$   | 33  | $40\frac{1}{3}$  |
| 12                       | 30  | 30  | 36  | 44   |
| 13                       | $32\frac{1}{2}$                                     | $32\frac{1}{2}$   | 39  | $47\frac{2}{3}$  |
| 14                       | 35  | 35  | 42  | $51\frac{1}{3}$  |
| 15                       | $37\frac{1}{2}$                                     | $37\frac{1}{2}$   | 45  | 55   |
| 16                       | 40  | 40  | 48  | $58\frac{2}{3}$  |
| 17                       | $42\frac{1}{2}$                                     | $42\frac{1}{2}$   | 51  | $62\frac{1}{3}$  |
| 18                       | 45  | 45  | 54  | 66   |
| 19                       | $47\frac{1}{2}$                                     | $47\frac{1}{2}$   | 57  | $69\frac{2}{3}$  |
| 20                       | 50  | 50  | 60  | $73\frac{1}{3}$  |
| 21                       | $52\frac{1}{2}$                                     | $52\frac{1}{2}$   | 63  | 77   |
| 22                       | 55  | 55  | 66  | $80\frac{2}{3}$  |
| 23                       | $57\frac{1}{2}$                                     | $57\frac{1}{2}$   | 69  | $84\frac{1}{3}$  |
| 24                       | 60  | 60  | 72  | 88   |
| 25                       | $62\frac{1}{2}$                                     | $62\frac{1}{2}$   | 75  | $91\frac{2}{3}$  |
| 26                       | 65  | 65  | 78  | $95\frac{1}{3}$  |
| 27                       | $67\frac{1}{2}$                                     | $67\frac{1}{2}$   | 81  | 99   |
| 28                       | 70  | 70  | 84  | $102\frac{2}{3}$   |
| 29                       | $72\frac{1}{2}$                                     | $72\frac{1}{2}$   | 87  | $106\frac{1}{3}$   |
| 30                       | 75  | 75  | 90  | 110  |

TAPPINGS— $1\frac{1}{2}$  inches top and bottom. Bushed for steam or water as per specifications.

Can be supplied on special order with  $4\frac{1}{2}$ -inch legs, or without legs at no extra charge.

For height of loop section only, subtract ( $1\frac{1}{2}$ ) inches from total height as shown above.

CONNECTIONS—Both steam and water—extra heavy  $1\frac{1}{2}$ -inch right and left threaded nipples at top and bottom.

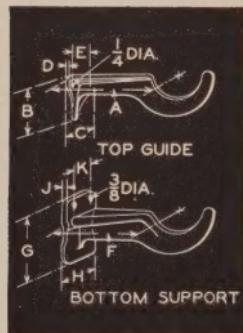
\* Add  $\frac{1}{2}$  inch to length for each bushing.

# AMERICAN RADIATORS

## AMERICAN CORTO CONCEALED RADIATOR BRACKETS DIMENSIONS

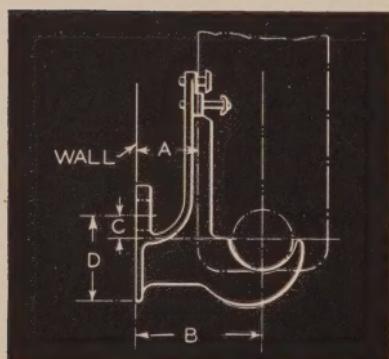


| Type of Radiator | A       | B        | C       | E      | D      |         |         |         |         |         |       |
|------------------|---------|----------|---------|--------|--------|---------|---------|---------|---------|---------|-------|
|                  |         |          |         |        | 14     | 17      | 20      | 23      | 26      | 32      | 38    |
| Three Tube       | 3 11/16 | 6        | 2 15/16 | 2 7/16 | .....  | .....   | 14 1/16 | 17 1/16 | 20 1/16 | 26 1/16 | 32    |
| Four Tube        | 4 1/2   | 7 5/8    | 2 15/16 | 2 7/16 | .....  | .....   | 14 1/16 | 17 1/16 | 20 1/16 | 26 1/16 | 32    |
| Five Tube        | 5 3/8   | 9 3/8    | 2 15/16 | 2 7/16 | .....  | .....   | 14 1/16 | 17 1/16 | 20 1/16 | 26 1/16 | 32    |
| Six Tube         | 6 3/16  | 11       | 2 15/16 | 2 7/16 | .....  | .....   | 14 1/16 | 17 1/16 | 20 1/16 | 26 1/16 | 32    |
| Seven Tube       |         |          |         |        |        |         |         |         |         |         |       |
| Window           | 7       | 12 11/16 | 2 15/16 | 2 7/16 | 9 9/16 | 12 9/16 | 15 9/16 | .....   | .....   | .....   | ..... |



| Type of Radiator | Top Bracket |       |       |      |   | Bottom Bracket |       |       |     |       |
|------------------|-------------|-------|-------|------|---|----------------|-------|-------|-----|-------|
|                  | A           | B     | C     | D    | E | F              | G     | H     | J   | K     |
| Three Tube       | 3 11/16     | 2 5/8 | 1 3/4 | 5/16 | 1 | 3 11/16        | 4 3/8 | 2 1/4 | 1/2 | 1 1/4 |
| Four Tube        | 4 1/2       | 2 5/8 | 1 3/4 | 5/16 | 1 | 4 1/2          | 4 3/8 | 2 1/4 | 1/2 | 1 1/4 |
| Five Tube        | 5 3/8       | 2 5/8 | 1 3/4 | 5/16 | 1 | 5 3/8          | 4 3/8 | 2 1/4 | 1/2 | 1 1/4 |
| Six Tube         | 6 3/16      | 2 5/8 | 1 3/4 | 5/16 | 1 | 6 3/16         | 4 3/4 | 2 1/4 | 1/2 | 1 1/4 |
| Seven Tube       |             |       |       |      |   |                |       |       |     |       |
| Window           | 7           | 2 5/8 | 1 3/4 | 5/16 | 1 | 7              | 4 3/8 | 2 1/4 | 1/2 | 1 1/4 |

## AMERICAN CORTO MALLEABLE RADIATOR BRACKETS DIMENSIONS



| Dimension "A" Inches | Dimension "B" |        |        |        |
|----------------------|---------------|--------|--------|--------|
|                      | 2             | 3      | 4      | 5      |
| Three Tube.....      | 4 5/16        | 5 5/16 | 6 5/16 | 7 5/16 |
| Four Tube.....       | 5 3/16        | 6 3/16 | 7 3/16 | 8 3/16 |
| Five Tube.....       | 6             | 7      | 8      | 9      |
| Six Tube.....        | 6 7/8         | 7 7/8  | 8 7/8  | 9 7/8  |
| Seven Tube Window..  | 7 3/4         | 8 3/4  | 9 3/4  | 10 3/4 |
| Dimension "C".....   | 7/8           | 1 3/8  | 1 3/8  | 1 3/8  |
| Dimension "D".....   | 4 3/8         | 4 3/8  | 4 3/8  | 4 3/8  |

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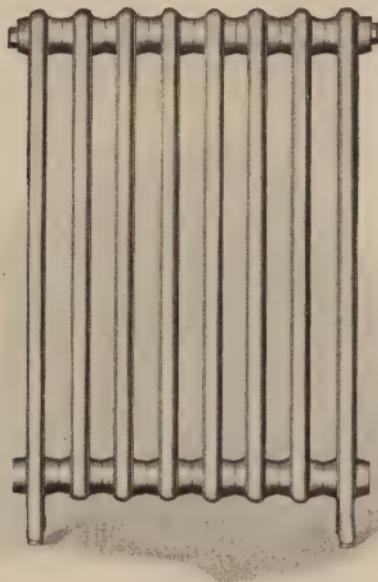
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## AMERICAN RADIATORS

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### AMERICAN CORTO HOSPITAL RADIATORS



*For use in Hospitals and Sanitariums*

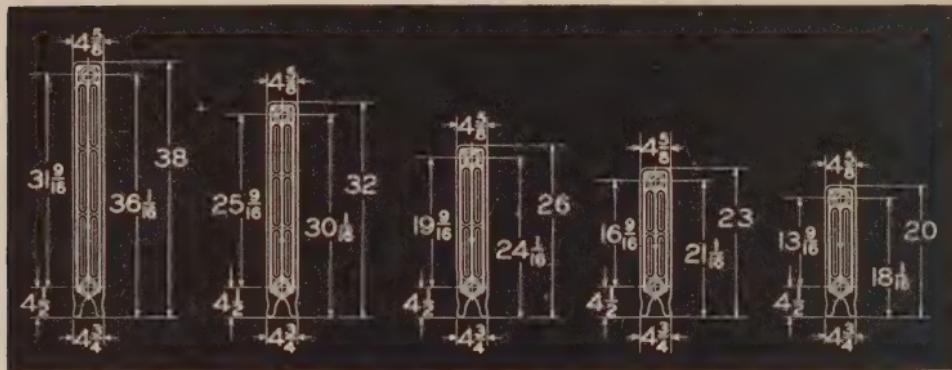
**S**ANITARY conditions in hospitals and sanitariums demand a radiator that is accessible for easy and thorough cleaning. American Corto Hospital Radiators meet this need with well-spaced sections measuring three inches from center to center.

American Corto Hospital Radiators are regularly furnished without bead, and in three and five tube widths and all heights.

The heating surface, heights and widths are the same as for corresponding patterns of standard American Corto Radiators. The lengths are twenty per cent greater because of the three-inch center to center sections.

# AMERICAN RADIATORS

## AMERICAN CORTO HOSPITAL RADIATORS *Three-Tube*



**WIDTH, 4 $\frac{5}{8}$  INCHES; CENTERS, 3 INCHES**

| Number of Sections | Length 3 Inches Per Section | HEATING SURFACE—SQUARE FEET Based upon Engineering Standard of 240 B.t.u. emission per Square Foot per Hour |                                      |  |                                      |  |
|--------------------|-----------------------------|---|--------------------------------------|--|--------------------------------------|--|
|                    |                             | 20-inch Height 1 $\frac{1}{4}$ Sq. Ft. Per Section  | 23-inch Height 2 Sq. Ft. Per Section | 26-inch Height 2 $\frac{1}{3}$ Sq. Ft. Per Section | 32-inch Height 3 Sq. Ft. Per Section | 38-inch Height 3 $\frac{1}{2}$ Sq. Ft. Per Section |
|                    |                             | 20 $\frac{1}{2}$  | 23 $\frac{3}{4}$                     | 26 $\frac{5}{8}$                                   | 32 $\frac{1}{3}$                     | 38 $\frac{1}{2}$                                   |
| 2                  | 5 $\frac{1}{2}$             | 3 $\frac{1}{2}$   | 4                                    | 4 $\frac{2}{3}$                                    | 6                                    | 7  |
| 3                  | 8 $\frac{1}{2}$             | 5 $\frac{1}{4}$   | 6                                    | 7  | 9                                    | 10 $\frac{1}{2}$                                   |
| 4                  | 11 $\frac{1}{2}$            | 7   | 8                                    | 9 $\frac{1}{3}$                                    | 12                                   | 14   |
| 5                  | 14 $\frac{1}{2}$            | 8 $\frac{3}{4}$   | 10                                   | 11 $\frac{2}{3}$                                   | 15                                   | 17 $\frac{1}{2}$                                   |
| 6                  | 17 $\frac{1}{2}$            | 10 $\frac{1}{2}$  | 12                                   | 14   | 18                                   | 21   |
| 7                  | 20 $\frac{1}{2}$            | 12 $\frac{1}{4}$  | 14                                   | 16 $\frac{1}{3}$                                   | 21                                   | 24 $\frac{1}{2}$                                   |
| 8                  | 23 $\frac{1}{2}$            | 14  | 16                                   | 18 $\frac{2}{3}$                                   | 24                                   | 28   |
| 9                  | 26 $\frac{1}{2}$            | 15 $\frac{3}{4}$  | 18                                   | 21   | 27                                   | 31 $\frac{1}{2}$                                   |
| 10                 | 29 $\frac{1}{2}$            | 17 $\frac{1}{2}$  | 20                                   | 23 $\frac{1}{3}$                                   | 30                                   | 35   |
| 11                 | 32 $\frac{1}{2}$            | 19 $\frac{1}{4}$  | 22                                   | 25 $\frac{2}{3}$                                   | 33                                   | 38 $\frac{1}{2}$                                   |
| 12                 | 35 $\frac{1}{2}$            | 21  | 24                                   | 28   | 36                                   | 42   |
| 13                 | 38 $\frac{1}{2}$            | 22 $\frac{3}{4}$  | 26                                   | 30 $\frac{1}{3}$                                   | 39                                   | 45 $\frac{1}{2}$                                   |
| 14                 | 41 $\frac{1}{2}$            | 24 $\frac{1}{2}$  | 28                                   | 32 $\frac{2}{3}$                                   | 42                                   | 49   |
| 15                 | 44 $\frac{1}{2}$            | 26 $\frac{1}{4}$  | 30                                   | 35   | 45                                   | 52 $\frac{1}{2}$                                   |
| 16                 | 47 $\frac{1}{2}$            | 28  | 32                                   | 37 $\frac{1}{3}$                                   | 48                                   | 56   |
| 17                 | 50 $\frac{1}{2}$            | 29 $\frac{3}{4}$  | 34                                   | 39 $\frac{2}{3}$                                   | 51                                   | 59 $\frac{1}{2}$                                   |
| 18                 | 53 $\frac{1}{2}$            | 31 $\frac{1}{2}$  | 36                                   | 42   | 54                                   | 63   |
| 19                 | 56 $\frac{1}{2}$            | 33 $\frac{1}{4}$  | 38                                   | 44 $\frac{1}{3}$                                   | 57                                   | 66 $\frac{1}{2}$                                   |
| 20                 | 59 $\frac{1}{2}$            | 35  | 40                                   | 46 $\frac{2}{3}$                                   | 60                                   | 70   |
| 21                 | 62 $\frac{1}{2}$            | 36 $\frac{3}{4}$  | 42                                   | 49   | 63                                   | 73 $\frac{1}{2}$                                   |
| 22                 | 65 $\frac{1}{2}$            | 38 $\frac{1}{2}$  | 44                                   | 51 $\frac{1}{3}$                                   | 66                                   | 77   |
| 23                 | 68 $\frac{1}{2}$            | 40 $\frac{1}{4}$  | 46                                   | 53 $\frac{2}{3}$                                   | 69                                   | 80 $\frac{1}{2}$                                   |
| 24                 | 71 $\frac{1}{2}$            | 42  | 48                                   | 56   | 72                                   | 84   |
| 25                 | 74 $\frac{1}{2}$            | 43 $\frac{3}{4}$  | 50                                   | 58 $\frac{1}{3}$                                   | 75                                   | 87 $\frac{1}{2}$                                   |
| 26                 | 77 $\frac{1}{2}$            | 45 $\frac{1}{2}$  | 52                                   | 60 $\frac{2}{3}$                                   | 78                                   | 91   |
| 27                 | 80 $\frac{1}{2}$            | 47 $\frac{1}{4}$  | 54                                   | 63   | 81                                   | 94 $\frac{1}{2}$                                   |
| 28                 | 83 $\frac{1}{2}$            | 49  | 56                                   | 65 $\frac{1}{3}$                                   | 84                                   | 98   |
| 29                 | 86 $\frac{1}{2}$            | 50 $\frac{1}{4}$  | 58                                   | 67 $\frac{2}{3}$                                   | 87                                   | 101 $\frac{1}{2}$                                  |
| 30                 | 89 $\frac{1}{2}$            | 52 $\frac{1}{2}$  | 60                                   | 70   | 90                                   | 105  |

**TAPPINGS**—1 $\frac{1}{2}$  inches top and bottom. Bushed for steam or water as per specifications. Can be supplied on special order with 6-inch legs, or without legs at no extra charge.

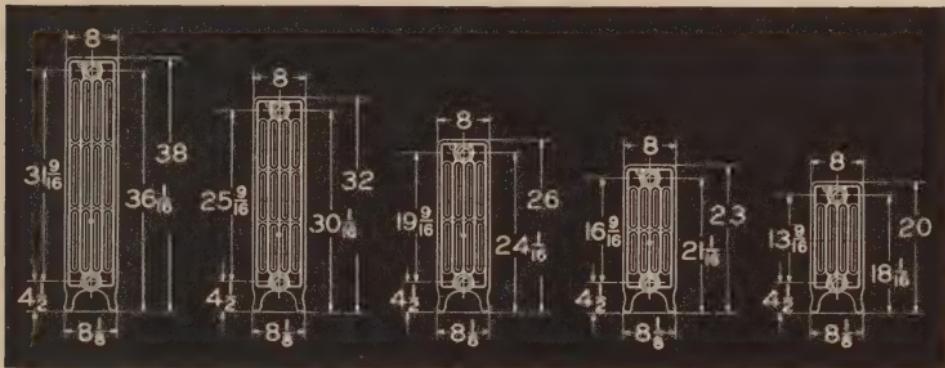
For height of loop section only, subtract (3") inches from total height as shown above.

**CONNECTIONS**—Both steam and water—extra heavy 1 $\frac{1}{2}$ -inch right and left threaded nipples at top and bottom.

\*Add  $\frac{1}{2}$  inch to length for each bushing.

# AMERICAN RADIATORS

## AMERICAN CORTO HOSPITAL RADIATORS Five-Tube



WIDTH, 8 INCHES; CENTERS, 3 INCHES

| Number of Sections | Length 3 Inches Per Section | HEATING SURFACE—SQUARE FEET   |                                      |  |  |                                      |
|--------------------|-----------------------------|---|--------------------------------------|--|--|--------------------------------------|
|                    |                             | Based upon Engineering Standard of 240 B.t.u. emission per Square Foot per Hour |                                      |  |  |                                      |
|                    |                             | 20-inch Height 2 2/3 Sq. Ft. Per Section  | 23-inch Height 3 Sq. Ft. Per Section | 26-inch Height 3 1/2 Sq. Ft. Per Section | 32-inch Height 4 1/3 Sq. Ft. Per Section | 38-inch Height 5 Sq. Ft. Per Section |
| 2                  | 5 1/2                       | 5 1/4   | 6                                    | 7  | 8 2/3                                    | 10                                   |
| 3                  | 8 1/2                       | 8   | 9                                    | 10 1/2                                   | 13                                       | 15                                   |
| 4                  | 11 1/2                      | 10 2/3  | 12                                   | 14                                       | 17 1/3                                   | 20                                   |
| 5                  | 14 1/2                      | 13 1/3  | 15                                   | 17 1/2                                   | 21 2/3                                   | 25                                   |
| 6                  | 17 1/2                      | 16  | 18                                   | 21                                       | 26                                       | 30                                   |
| 7                  | 20 1/2                      | 18 2/3  | 21                                   | 24 1/2                                   | 30 1/3                                   | 35                                   |
| 8                  | 23 1/2                      | 21 1/3  | 24                                   | 28                                       | 34 2/3                                   | 40                                   |
| 9                  | 26 1/2                      | 24  | 27                                   | 31 1/2                                   | 39                                       | 45                                   |
| 10                 | 29 1/2                      | 26 2/3  | 30                                   | 35                                       | 43 1/3                                   | 50                                   |
| 11                 | 32 1/2                      | 29 1/3  | 33                                   | 38 1/2                                   | 47 2/3                                   | 55                                   |
| 12                 | 35 1/2                      | 32  | 36                                   | 42                                       | 52                                       | 60                                   |
| 13                 | 38 1/2                      | 34 2/3  | 39                                   | 45 1/2                                   | 56 1/3                                   | 65                                   |
| 14                 | 41 1/2                      | 37 1/3  | 42                                   | 49                                       | 60 2/3                                   | 70                                   |
| 15                 | 44 1/2                      | 40  | 45                                   | 52 1/2                                   | 65                                       | 75                                   |
| 16                 | 47 1/2                      | 42 2/3  | 48                                   | 56                                       | 69 1/3                                   | 80                                   |
| 17                 | 50 1/2                      | 45 1/3  | 51                                   | 59 1/2                                   | 73 2/3                                   | 85                                   |
| 18                 | 53 1/2                      | 48  | 54                                   | 63                                       | 78                                       | 90                                   |
| 19                 | 56 1/2                      | 50 2/3  | 57                                   | 66 1/2                                   | 82 1/3                                   | 95                                   |
| 20                 | 59 1/2                      | 53 1/3  | 60                                   | 70                                       | 86 2/3                                   | 100                                  |
| 21                 | 62 1/2                      | 56  | 63                                   | 73 1/2                                   | 91                                       | 105                                  |
| 22                 | 65 1/2                      | 58 2/3  | 66                                   | 77                                       | 95 1/3                                   | 110                                  |
| 23                 | 68 1/2                      | 61 1/3  | 69                                   | 80 1/2                                   | 99 2/3                                   | 115                                  |
| 24                 | 71 1/2                      | 64  | 72                                   | 84                                       | 104                                      | 120                                  |
| 25                 | 74 1/2                      | 66 2/3  | 75                                   | 87 1/2                                   | 108 1/3                                  | 125                                  |
| 26                 | 77 1/2                      | 69 1/3  | 78                                   | 91                                       | 112 2/3                                  | 130                                  |
| 27                 | 80 1/2                      | 72  | 81                                   | 94 1/2                                   | 117                                      | 135                                  |
| 28                 | 83 1/2                      | 74 2/3  | 84                                   | 98                                       | 121 1/3                                  | 140                                  |
| 29                 | 86 1/2                      | 77 1/3  | 87                                   | 101 1/2                                  | 125 2/3                                  | 145                                  |
| 30                 | 89 1/2                      | 80  | 90                                   | 105                                      | 130                                      | 150                                  |

TAPPINGS—1 1/2 inches top and bottom. Bushed for steam or water as per specifications. Can be supplied on special order with 6-inch legs, or without legs at no extra charge.

For height of loop section only, subtract (3") inches from total height as shown above.

CONNECTIONS—Both steam and water—extra heavy 1 1/2-inch right and left threaded nipples at top and bottom.

\*Add 1/2 inch to length for each bushing.

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# AMERICAN RADIATORS

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## CORTO RADIATOR PEDESTALS

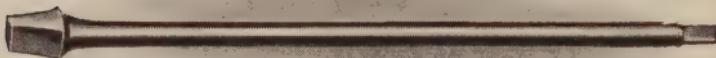


Pedestals to fit under legs of all styles and heights of any of our Direct Radiators can be furnished in the following heights:  $\frac{1}{2}$ , 1,  $1\frac{1}{2}$ , 2,  $2\frac{1}{2}$ , 3,  $3\frac{1}{2}$ , 4,  $4\frac{1}{2}$  and 5 inches. Made at Pierce Plant.

## SPECIAL RADIATORS

All patterns of American Corto Radiators can be furnished in curved, corner, or angle patterns on special order at extra cost. Complete information, including plan sketch with necessary dimensions for production, must accompany order.

## DIRECT RADIATOR WRENCH



These steel wrenches are made especially for assembling or disassembling Direct Radiators connected with right- and left-hand threaded nipples. Made in two lengths—2-foot and 4-foot.

## VENTO AND INDIRECT RADIATOR WRENCH



These drop-forged steel wrenches are made especially for assembling Vento and Indirect Radiators connected with right- and left-hand threaded nipples having hexagon nut at center. Made for  $1\frac{1}{2}$ - 2-,  $2\frac{1}{2}$ - or 3-inch nipp openings.

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# AMERICAN RADIATORS

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## Tappings and Measurements

Apply to all American Radiators except Arco and Fantom.

### Standard Tappings

#### One-Pipe Steam Work—Supply

|                                      |                       |
|--------------------------------------|-----------------------|
| Up to 24 square feet, inclusive..... | 1 -inch               |
| Above 24, up to 60 square feet.....  | 1 $\frac{1}{4}$ -inch |
| Above 60 square feet.....            | 1 $\frac{1}{2}$ -inch |

#### Two-Pipe Work—Supply and Return

|                                      |   |
|--------------------------------------|---|
| Up to 48 square feet, inclusive..... | 1 x 3/4-inch                            |
| Above 48, up to 96 square feet.....  | 1 $\frac{1}{4}$ x 1 -inch               |
| Above 96 square feet.....            | 1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ -inch |

### Water Radiators

#### Tapped for Supply and Return

|                                      |   |
|--------------------------------------|---|
| Up to 40 square feet, inclusive..... | 1 x 1 -inch                             |
| Above 40, up to 72 square feet.....  | 1 $\frac{1}{4}$ x 1 $\frac{1}{4}$ -inch |
| Above 72 square feet.....            | 1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ -inch |

### Air Valve and Vapor Tappings

All air-valve tappings of Direct Radiators are regularly made  $\frac{1}{8}$ -inch.

Vapor tappings, top and bottom opposite ends; supply  $\frac{3}{4}$  inch, return  $\frac{1}{2}$ -inch.

### Threads of Openings

Unless otherwise ordered, all openings of Direct Radiators will have right-hand threads (except that of Wall Radiators where tapped 1 $\frac{1}{2}$ -inch, in which case tapping at one end is right-hand and left-hand on other end).

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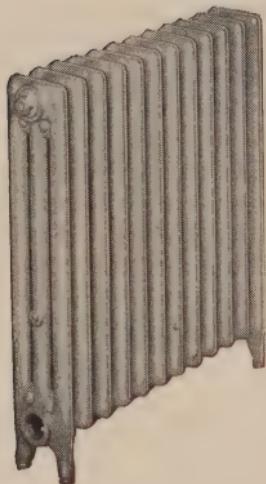
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# AMERICAN RADIATORS

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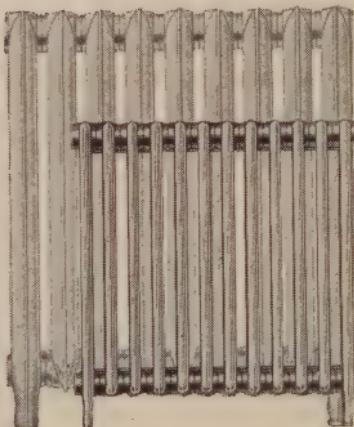
## ARCO RADIATOR



Occupies about one-third less space than former types, but has same heat output.

Especially adapted for recessing, with Arco Radiator Enclosures.

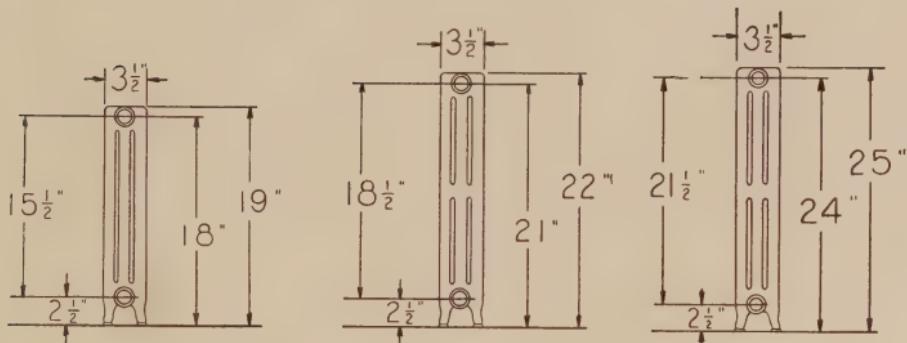
Illustration at right shows the relative size of the Arco Radiator as compared with former type.



# AMERICAN RADIATORS

## ARCO RADIATORS

### Three-Tube



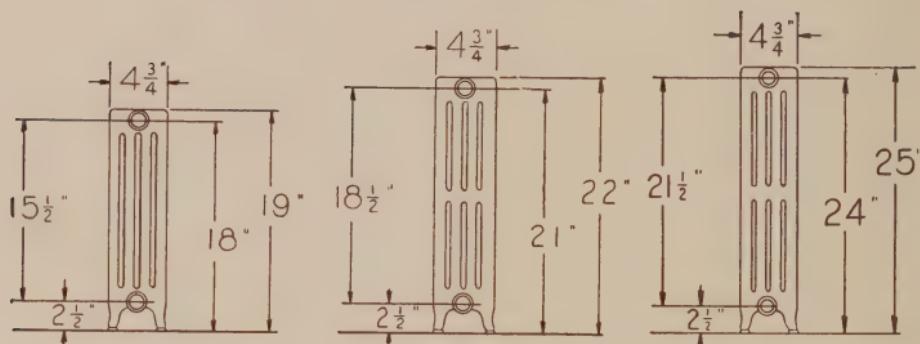
**WIDTH 3 1/2 INCHES; CENTERS 1 1/2 INCHES**

| Number<br>of<br>Sections | Length<br>1 1/2 Inches<br>Per<br>Section | HEATING SURFACE—BASED UPON THE STANDARD HEAT EMISSION OF<br>240 B. T. U. PER SQUARE FOOT PER HOUR |                                  |                                  |
|--------------------------|--|---|----------------------------------|----------------------------------|
|                          |  | 1.1 Sq. Ft. Per Section   | 1.3 Sq. Ft. Per Section          | 1.5 Sq. Ft. Per Section          |
|                          |  | 0.733 Sq. Ft.<br>Per Lineal Inch  | 0.867 Sq. Ft.<br>Per Lineal Inch | 1.000 Sq. Ft.<br>Per Lineal Inch |
| 2                        | 3  | 2.2   | 2.6                              | 3                                |
| 3                        | 4 1/2                                    | 3.3   | 3.9                              | 4.5                              |
| 4                        | 6  | 4.4   | 5.2                              | 6                                |
| 5                        | 7 1/2                                    | 5.5   | 6.5                              | 7.5                              |
| 6                        | 9  | 6.6   | 7.8                              | 9                                |
| 7                        | 10 1/2                                   | 7.7   | 9.1                              | 10.5                             |
| 8                        | 12                                       | 8.8   | 10.4                             | 12                               |
| 9                        | 13 1/2                                   | 9.9   | 11.7                             | 13.5                             |
| 10                       | 15                                       | 11.0  | 13.0                             | 15                               |
| 11                       | 16 1/2                                   | 12.1  | 14.3                             | 16.5                             |
| 12                       | 18                                       | 13.2  | 15.6                             | 18                               |
| 13                       | 19 1/2                                   | 14.3  | 16.9                             | 19.5                             |
| 14                       | 21                                       | 15.4  | 18.2                             | 21                               |
| 15                       | 22 1/2                                   | 16.5  | 19.5                             | 22.5                             |
| 16                       | 24                                       | 17.6  | 20.8                             | 24                               |
| 17                       | 25 1/2                                   | 18.7  | 22.1                             | 25.5                             |
| 18                       | 27                                       | 19.8  | 23.4                             | 27                               |
| 19                       | 28 1/2                                   | 20.9  | 24.7                             | 28.5                             |
| 20                       | 30                                       | 22.0  | 26.0                             | 30                               |
| 21                       | 31 1/2                                   | 23.1  | 27.3                             | 31.5                             |
| 22                       | 33                                       | 24.2  | 28.6                             | 33                               |
| 23                       | 34 1/2                                   | 25.3  | 29.9                             | 34.5                             |
| 24                       | 36                                       | 26.4  | 31.2                             | 36                               |
| 25                       | 37 1/2                                   | 27.5  | 32.5                             | 37.5                             |
| 26                       | 39                                       | 28.6  | 33.8                             | 39                               |
| 27                       | 40 1/2                                   | 29.7  | 35.1                             | 40.5                             |
| 28                       | 42                                       | 30.8  | 36.4                             | 42                               |
| 29                       | 43 1/2                                   | 31.9  | 37.7                             | 43.5                             |
| 30                       | 45                                       | 33.0  | 39.0                             | 45                               |

**CONNECTIONS**—Both steam and water extra heavy 1-inch malleable nipples at top and bottom. Can be supplied on special order with 4 1/2-inch legs, or without legs at no extra charge. For height of loop section only, subtract (1 1/2") inches from total height as shown above. End sections regularly supplied with 1-inch tappings top and bottom, bushed if so specified. Can be tapped 1 1/4 inches if desired.

# AMERICAN RADIATORS

## ARCO RADIATORS Four-Tube



WIDTH 4 3/4 INCHES; CENTERS 1 1/2 INCHES

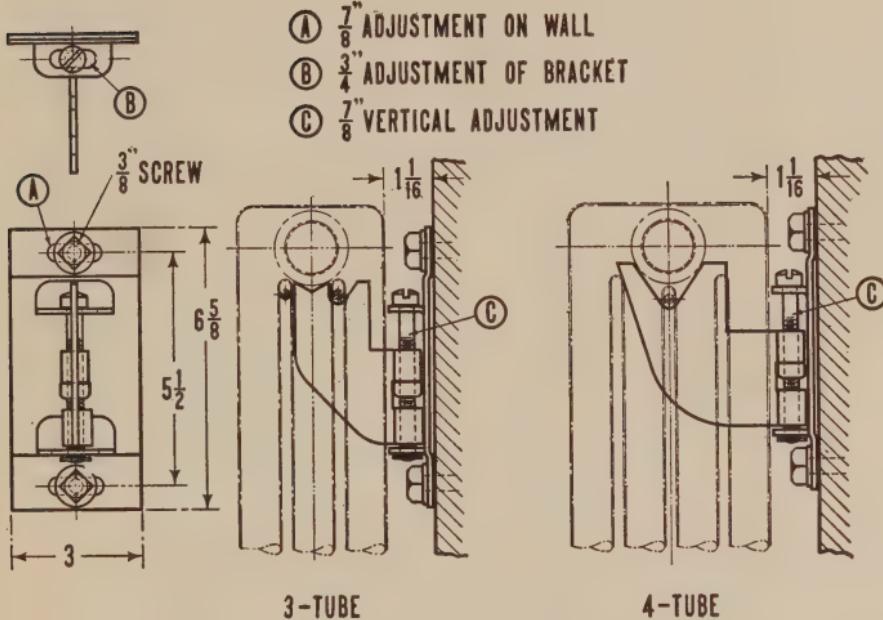
| Number<br>of<br>Sections | Length<br>1 1/2 Inches<br>Per<br>Section | HEATING SURFACE—BASED UPON THE STANDARD HEAT EMISSION OF<br>240 B. T. U. PER SQUARE FOOT PER HOUR |   |   |
|--------------------------|--|---|---|---|
|                          |  | 19-Inch Height<br>1.4 Sq. Ft. Per Section   | 22-Inch Height<br>1.6 Sq. Ft. Per Section | 25-Inch Height<br>1.8 Sq. Ft. Per Section |
|                          |  | 0.933 Sq. Ft.<br>Per Lineal Inch  | 1.067 Sq. Ft.<br>Per Lineal Inch          | 1.200 Sq. Ft.<br>Per Lineal Inch          |
| 2                        | 3  | 2.8   | 3.2                                       | 3.6                                       |
| 3                        | 4 1/2                                    | 4.2   | 4.8                                       | 5.4                                       |
| 4                        | 6  | 5.6   | 6.4                                       | 7.2                                       |
| 5                        | 7 1/2                                    | 7.0   | 8.0                                       | 9.0                                       |
| 6                        | 9  | 8.4   | 9.6                                       | 10.8                                      |
| 7                        | 10 1/2                                   | 9.8   | 11.2                                      | 12.6                                      |
| 8                        | 12                                       | 11.2  | 12.8                                      | 14.4                                      |
| 9                        | 13 1/2                                   | 12.6  | 14.4                                      | 16.2                                      |
| 10                       | 15                                       | 14.0  | 16.0                                      | 18.0                                      |
| 11                       | 16 1/2                                   | 15.4  | 17.6                                      | 19.8                                      |
| 12                       | 18                                       | 16.8  | 19.2                                      | 21.6                                      |
| 13                       | 19 1/2                                   | 18.2  | 20.8                                      | 23.4                                      |
| 14                       | 21                                       | 19.6  | 22.4                                      | 25.2                                      |
| 15                       | 22 1/2                                   | 21.0  | 24.0                                      | 27.0                                      |
| 16                       | 24                                       | 22.4  | 25.6                                      | 28.8                                      |
| 17                       | 25 1/2                                   | 23.8  | 27.2                                      | 30.6                                      |
| 18                       | 27                                       | 25.2  | 28.8                                      | 32.4                                      |
| 19                       | 28 1/2                                   | 26.6  | 30.4                                      | 34.2                                      |
| 20                       | 30                                       | 28.0  | 32.0                                      | 36.0                                      |
| 21                       | 31 1/2                                   | 29.4  | 33.6                                      | 37.8                                      |
| 22                       | 33                                       | 30.8  | 35.2                                      | 39.6                                      |
| 23                       | 34 1/2                                   | 32.2  | 36.8                                      | 41.4                                      |
| 24                       | 36                                       | 33.6  | 38.4                                      | 43.2                                      |
| 25                       | 37 1/2                                   | 35.0  | 40.0                                      | 45.0                                      |
| 26                       | 39                                       | 36.4  | 41.6                                      | 46.8                                      |
| 27                       | 40 1/2                                   | 37.8  | 43.2                                      | 48.6                                      |
| 28                       | 42                                       | 39.2  | 44.8                                      | 50.4                                      |
| 29                       | 43 1/2                                   | 40.6  | 46.4                                      | 52.2                                      |
| 30                       | 45                                       | 42.0  | 48.0                                      | 54.0                                      |

**CONNECTIONS**—Both steam and water extra heavy 1-inch malleable nipples at top and bottom. Can be supplied on special order with 4 1/2-inch legs, or without legs at no extra charge. For height of loop section only, subtract (1 1/2") inches from total height as shown above. End sections regularly supplied with 1-inch tappings top and bottom, bushed if so specified. Can be tapped 1 1/4 inches if desired.

# AMERICAN RADIATORS

## ARCO RADIATOR BRACKETS

### Dimensions and Data



## ARCO RADIATOR PEDESTALS



Pedestals to fit under legs of the 3- and 4-Tube Arco Radiators can be furnished in the following heights— $\frac{1}{2}$ "—1" and  $1\frac{1}{2}$ ".

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# AMERICAN RADIATORS

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## THE AMERICAN FANTOM RADIATOR



Patent Pending

AMERICAN FANTOM RADIATOR—CAMPBELL METAL WINDOW UNIT IN THE SAVOY PLAZA HOTEL, NEW YORK CITY

THE American Fantom Radiator supplies uniform heat by radiation into the lower part of the room where most needed, and by the circulation of warmed air to check window drafts and to permeate the whole room. Its exposed surface can be tinted any color in harmony with the decorative scheme. The Fantom requires little space, is accessible for cleaning and offers an excellent means of heat delivery.

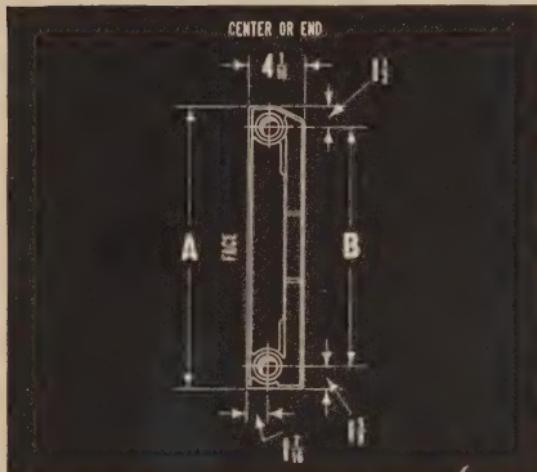
The American Fantom Radiator and Campbell Metal Window illustrated above is an especially efficient and attractive combination. Arrangements of this unit are shown on pages 24 to 26.

# AMERICAN RADIATORS

## AMERICAN FANTOM RADIATORS

17-Inch, 20-Inch and 23-Inch One Tube

WIDTH  $4\frac{1}{16}$  INCHES; CENTERS  $2\frac{1}{2}$  INCHES



### DIMENSIONS—ONE TUBE

|     | A                 | B                 |
|-----|-------------------|-------------------|
| 17" | $17\frac{1}{16}$  | $13\frac{15}{16}$ |
| 20" | 20                | $16\frac{5}{16}$  |
| 23" | $22\frac{13}{16}$ | $19\frac{11}{16}$ |

TAPPINGS— $1\frac{1}{4}$  inches top and bottom. Bushed for steam or water as per specifications.

CONNECTIONS—Both steam and water—extra heavy  $1\frac{1}{4}$ -inch right and left threaded nipples at top and bottom.

| Number<br>of<br>Sections | *<br>Length<br>$2\frac{1}{2}$ Inches<br>Per Section | †<br>17 Inches Height<br>$1\frac{3}{4}$ Square Feet<br>Per Section | †<br>20 Inches Height<br>2 Square Feet<br>Per Section | †<br>23 Inches Height<br>$2\frac{1}{4}$ Square Feet<br>Per Section |
|--------------------------|---|--|---|--|
|                          |   |  | 17  | 20   |
| 2                        | 5   | $3\frac{1}{2}$   | 4   | $4\frac{1}{2}$   |
| 3                        | $7\frac{1}{2}$                                      | $5\frac{1}{4}$   | 6   | $6\frac{3}{4}$   |
| 4                        | 10  | 7  | 8   | 9  |
| 5                        | $12\frac{1}{2}$                                     | $8\frac{3}{4}$   | 10  | $11\frac{1}{4}$  |
| 6                        | 15  | $10\frac{1}{2}$  | 12  | $13\frac{1}{2}$  |
| 7                        | $17\frac{1}{2}$                                     | $12\frac{1}{4}$  | 14  | $15\frac{3}{4}$  |
| 8                        | 20  | 14   | 16  | 18   |
| 9                        | $22\frac{1}{2}$                                     | $15\frac{3}{4}$  | 18  | $20\frac{1}{4}$  |
| 10                       | 25  | $17\frac{1}{2}$  | 20  | $22\frac{1}{2}$  |
| 11                       | $27\frac{1}{2}$                                     | $19\frac{1}{4}$  | 22  | $24\frac{3}{4}$  |
| 12                       | 30  | 21   | 24  | 27   |
| 13                       | $32\frac{1}{2}$                                     | $22\frac{3}{4}$  | 26  | $29\frac{1}{4}$  |
| 14                       | 35  | $24\frac{1}{2}$  | 28  | $31\frac{1}{2}$  |
| 15                       | $37\frac{1}{2}$                                     | $26\frac{1}{4}$  | 30  | $33\frac{3}{4}$  |
| 16                       | 40  | 28   | 32  | 36   |
| 17                       | $42\frac{1}{2}$                                     | $29\frac{3}{4}$  | 34  | $38\frac{1}{4}$  |
| 18                       | 45  | $31\frac{1}{2}$  | 36  | $40\frac{1}{2}$  |
| 19                       | $47\frac{1}{2}$                                     | $33\frac{1}{4}$  | 38  | $42\frac{1}{4}$  |
| 20                       | 50  | 35   | 40  | 45   |
| 21                       | $52\frac{1}{2}$                                     | $36\frac{3}{4}$  | 42  | $47\frac{1}{4}$  |
| 22                       | 55  | $38\frac{1}{2}$  | 44  | $49\frac{1}{2}$  |
| 23                       | $57\frac{1}{2}$                                     | $40\frac{1}{4}$  | 46  | $51\frac{3}{4}$  |
| 24                       | 60  | 42   | 48  | 54   |
| 25                       | $62\frac{1}{2}$                                     | $43\frac{3}{4}$  | 50  | $56\frac{1}{4}$  |

\* Add  $\frac{1}{2}$  inch to length for each bushing.

† Based on Engineering Standards of 215 degrees Fahrenheit steam temperature, 70 degrees room temperature and 240 B.t.u. per square foot per hour.

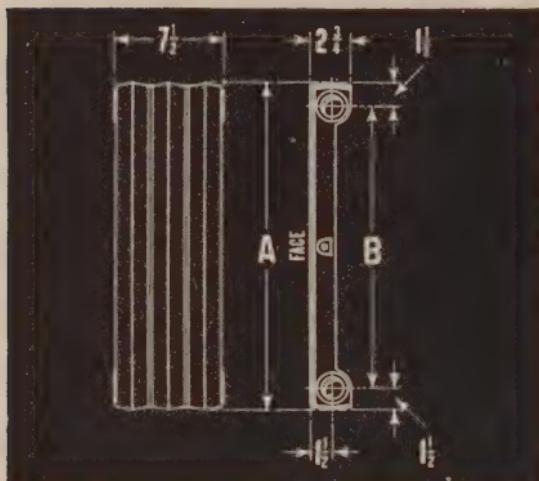
Regularly furnished without legs, but can be supplied on special order with  $4\frac{1}{2}$ " legs only at no extra charge.

# AMERICAN RADIATORS

## AMERICAN FANTOM RADIATORS

17-Inch and 23-Inch Two Tube

WIDTH 2 $\frac{3}{4}$  INCHES; CENTERS 7 $\frac{1}{2}$  INCHES



|              | A                | B                |
|--------------|------------------|------------------|
| 17-Inch..... | 17               | 14               |
| 23-Inch..... | 22 $\frac{3}{4}$ | 19 $\frac{3}{4}$ |

TAPPINGS—1 $\frac{1}{4}$  inches top and bottom. Bushed for steam or water as per specifications.

NOTE: Two Tube Fantom Radiators used for water systems are to be vented through tapped Top Plug provided on specification.

CONNECTIONS—Both steam and water—extra heavy 1 $\frac{1}{4}$ -inch right and left threaded nipples at top and bottom.

| Number<br>of<br>Sections | *<br>Length<br>Over All<br>Inches | †<br>17 Inches Height<br>3 $\frac{1}{3}$ Square Feet<br>Per Section | †<br>23 Inches Height<br>4 $\frac{1}{4}$ Square Feet<br>Per Section |
|--------------------------|-----------------------------------|---|---|
| 2                        | 15                                | 6 $\frac{2}{3}$   | 8 $\frac{1}{2}$   |
| 3                        | 22 $\frac{1}{2}$                  | 10  | 12 $\frac{3}{4}$  |
| 4                        | 30                                | 13 $\frac{1}{3}$  | 17  |
| 5                        | 37 $\frac{1}{2}$                  | 16 $\frac{2}{3}$  | 21 $\frac{1}{4}$  |
| 6                        | 45                                | 20  | 25 $\frac{1}{2}$  |
| 7                        | 52 $\frac{1}{2}$                  | 23 $\frac{1}{3}$  | 29 $\frac{3}{4}$  |
| 8                        | 60                                | 26 $\frac{2}{3}$  | 34  |
| 9                        | 67 $\frac{1}{2}$                  | 30  | 38 $\frac{1}{4}$  |
| 10                       | 75                                | 33 $\frac{1}{3}$  | 42 $\frac{1}{2}$  |
| 11                       | 82 $\frac{1}{2}$                  | 36 $\frac{2}{3}$  | 46 $\frac{3}{4}$  |
| 12                       | 90                                | 40  | 51  |
| 13                       | 97 $\frac{1}{2}$                  | 43 $\frac{1}{3}$  | 55 $\frac{1}{4}$  |
| 14                       | 105                               | 46 $\frac{2}{3}$  | 59 $\frac{1}{2}$  |
| 15                       | 112 $\frac{1}{2}$                 | 50  | 63 $\frac{3}{4}$  |
| 16                       | 120                               | 53 $\frac{1}{3}$  | 68  |

\* Add  $\frac{1}{2}$  inch to length for each bushing.

† Based on Engineering Standards of 215 degrees Fahrenheit steam temperature, 70 degrees room temperature and 240 B.t.u. per square foot per hour.

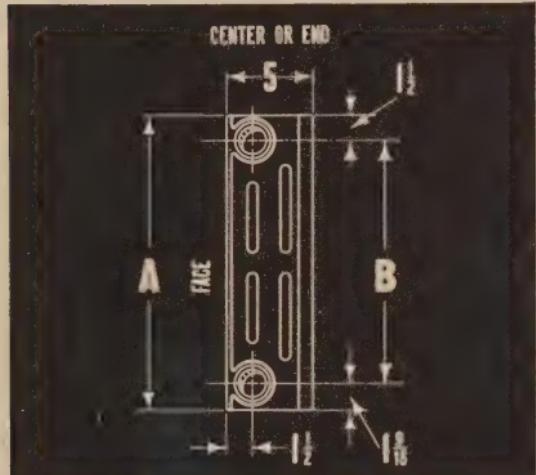
Furnished without legs only.

# AMERICAN RADIATORS

## AMERICAN FANTOM RADIATORS

*17-Inch, 20-Inch and 23-Inch Three Tube*

WIDTH 5 INCHES; CENTERS 2½ INCHES



### DIMENSIONS—THREE TUBE

|     | A                | B                  |
|-----|------------------|--------------------|
| 17" | 17               | 13 $\frac{15}{16}$ |
| 20" | 20               | 16 $\frac{15}{16}$ |
| 23" | 22 $\frac{3}{4}$ | 19 $\frac{11}{16}$ |

TAPPING—1½ inches top and bottom. Bushed for steam or water as per specifications.

CONNECTIONS—Both steam and water—extra heavy 1¼-inch right and left threaded nipples top and bottom.

| Number<br>of<br>Sections | *<br>Length<br>2½ Inches<br>Per Section | †<br>17 Inches Height<br>2 Square Feet<br>Per Section | †<br>20 Inches Height<br>2½ Square Feet<br>Per Section | †<br>23 Inches Height<br>2⅔ Square Feet<br>Per Section |
|--------------------------|---|---|--|--|
|                          |   |   |  |  |
| 2                        | 5                                       | 4   | 4 2/3  | 5 1/3  |
| 3                        | 7 1/2                                   | 6   | 7  | 8  |
| 4                        | 10                                      | 8   | 9 1/3  | 10 2/3   |
| 5                        | 12 1/2                                  | 10  | 11 2/3   | 13 1/3   |
| 6                        | 15                                      | 12  | 14   | 16   |
| 7                        | 17 1/2                                  | 14  | 16 1/3   | 18 2/3   |
| 8                        | 20                                      | 16  | 18 2/3   | 21 1/3   |
| 9                        | 22 1/2                                  | 18  | 21   | 24   |
| 10                       | 25                                      | 20  | 23 1/3   | 26 2/3   |
| 11                       | 27 1/2                                  | 22  | 25 2/3   | 29 1/3   |
| 12                       | 30                                      | 24  | 28   | 32   |
| 13                       | 32 1/2                                  | 26  | 30 1/3   | 34 2/3   |
| 14                       | 35                                      | 28  | 32 2/3   | 37 1/3   |
| 15                       | 37 1/2                                  | 30  | 35   | 40   |
| 16                       | 40                                      | 32  | 37 1/3   | 42 2/3   |
| 17                       | 42 1/2                                  | 34  | 39 2/3   | 45 1/3   |
| 18                       | 45                                      | 36  | 42   | 48   |
| 19                       | 47 1/2                                  | 38  | 44 1/3   | 50 2/3   |
| 20                       | 50                                      | 40  | 46 2/3   | 53 1/3   |
| 21                       | 52 1/2                                  | 42  | 49   | 56   |
| 22                       | 55                                      | 44  | 51 1/3   | 58 2/3   |
| 23                       | 57 1/2                                  | 46  | 53 2/3   | 61 1/3   |
| 24                       | 60                                      | 48  | 56   | 64   |
| 25                       | 62 1/2                                  | 50  | 58 1/3   | 66 2/3   |

\* Add 1/2 inch to length for each bushing.

† Based on Engineering Standards of 215 degrees Fahrenheit steam temperature, 70 degrees room temperature and 240 degrees B.t.u. per square foot per hour.

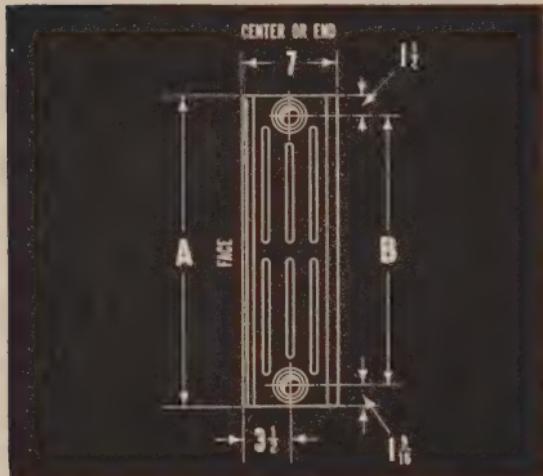
Regularly furnished without legs, but can be supplied on special order with 4 1/2" legs only at no extra charge.

# AMERICAN RADIATORS

## AMERICAN FANTOM RADIATORS

*17-Inch, 20-Inch and 23-Inch Four Tube*

*WIDTH 7 INCHES; CENTERS 2½ INCHES*



### DIMENSIONS—FOUR TUBE

|     | A  | B                 |
|-----|----|-------------------|
| 17" | 17 | $13\frac{15}{16}$ |
| 20" | 20 | $16\frac{15}{16}$ |
| 23" | 23 | $19\frac{11}{16}$ |

**TAPPINGS**— $1\frac{1}{4}$  inch top and bottom. Bushed for steam or water as per specifications.

**CONNECTIONS**—Both steam and water—extra heavy  $1\frac{1}{4}$ -inch right and left threaded nipples at top and bottom.

| Number<br>of<br>Sections | * Length<br>$2\frac{1}{2}$ Inches<br>Per<br>Section | $\dagger$ 17 Inches Height<br>$2\frac{2}{3}$ Square Feet<br>Per Section | $\dagger$ 20 Inches Height<br>3 Sq. Ft. Per<br>Section | $\dagger$ 23 Inches Height<br>$3\frac{1}{3}$ Square Feet<br>Per Section |
|--------------------------|---|---|--|---|
|                          |   |   | 17   | 20  |
| 2                        | 5   | 5½  | 6  | 6½  |
| 3                        | 7½  | 8   | 9  | 10  |
| 4                        | 10  | 10½   | 12   | 13½   |
| 5                        | 12½   | 13½   | 15   | 16½   |
| 6                        | 15  | 16  | 18   | 20  |
| 7                        | 17½   | 18½   | 21   | 23½   |
| 8                        | 20  | 21½   | 24   | 26½   |
| 9                        | 22½   | 24  | 27   | 30  |
| 10                       | 25  | 26½   | 30   | 33½   |
| 11                       | 27½   | 29½   | 33   | 36½   |
| 12                       | 30  | 32  | 36   | 40  |
| 13                       | 32½   | 34½   | 39   | 43½   |
| 14                       | 35  | 37½   | 42   | 46½   |
| 15                       | 37½   | 40  | 45   | 50  |
| 16                       | 40  | 42½   | 48   | 53½   |
| 17                       | 42½   | 45½   | 51   | 56½   |
| 18                       | 45  | 48  | 54   | 60  |
| 19                       | 47½   | 50½   | 57   | 63½   |
| 20                       | 50  | 53½   | 60   | 66½   |
| 21                       | 52½   | 56  | 63   | 70  |
| 22                       | 55  | 58½   | 66   | 73½   |
| 23                       | 57½   | 61½   | 69   | 76½   |
| 24                       | 60  | 64  | 72   | 80  |
| 25                       | 62½   | 66½   | 75   | 83½   |

\* Add  $\frac{1}{2}$  inch to length for each bushing.

† Based on Engineering Standards of 215 degrees Fahrenheit steam temperature, 70 degrees room temperature and 240 B.t.u. per square foot per hour.

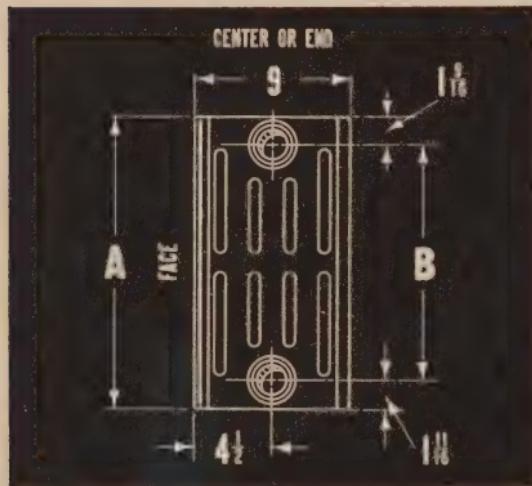
Regularly furnished without legs, but can be supplied on special order with  $4\frac{1}{2}$ " legs only at no extra charge.

# AMERICAN RADIATORS

## AMERICAN FANTOM RADIATORS

17-Inch and 23-Inch Five Tube

WIDTH 9 INCHES; CENTERS 2½ INCHES



### DIMENSIONS—FIVE TUBE

| A   | B            |
|-----|--------------|
| 17" | 17      14   |
| 23" | 22¾      19½ |

TAPPINGS—1½ inches top and bottom. Bushed for steam or water as per specifications.

CONNECTIONS—Both steam and water—extra heavy 1½-inch right and left threaded nipples at top and bottom.

| Number<br>of<br>Sections | *<br>Length 2½ Inches<br>Per<br>Section | †<br>17 Inches Height<br>3¼ Square Feet<br>Per Section | †<br>23 Inches Height<br>4 Square Feet<br>Per Section |
|--------------------------|---|--|---|
|                          |   |  |   |
| 2                        | 5                                       | 6½   | 8   |
| 3                        | 7½                                      | 9¾   | 12  |
| 4                        | 10                                      | 13   | 16  |
| 5                        | 12½                                     | 16¼  | 20  |
| 6                        | 15                                      | 19½  | 24  |
| 7                        | 17½                                     | 22¾  | 28  |
| 8                        | 20                                      | 26   | 32  |
| 9                        | 22½                                     | 29¼  | 36  |
| 10                       | 25                                      | 32½  | 40  |
| 11                       | 27½                                     | 35¾  | 44  |
| 12                       | 30                                      | 39   | 48  |
| 13                       | 32½                                     | 42¼  | 52  |
| 14                       | 35                                      | 45½  | 56  |
| 15                       | 37½                                     | 48¾  | 60  |
| 16                       | 40                                      | 52   | 64  |
| 17                       | 42½                                     | 55¼  | 68  |
| 18                       | 45                                      | 58½  | 72  |
| 19                       | 47½                                     | 61¾  | 76  |
| 20                       | 50                                      | 65   | 80  |
| 21                       | 52½                                     | 68¾  | 84  |
| 22                       | 55                                      | 71½  | 88  |
| 23                       | 57½                                     | 74¾  | 92  |
| 24                       | 60                                      | 78   | 96  |
| 25                       | 62½                                     | 81¾  | 100   |

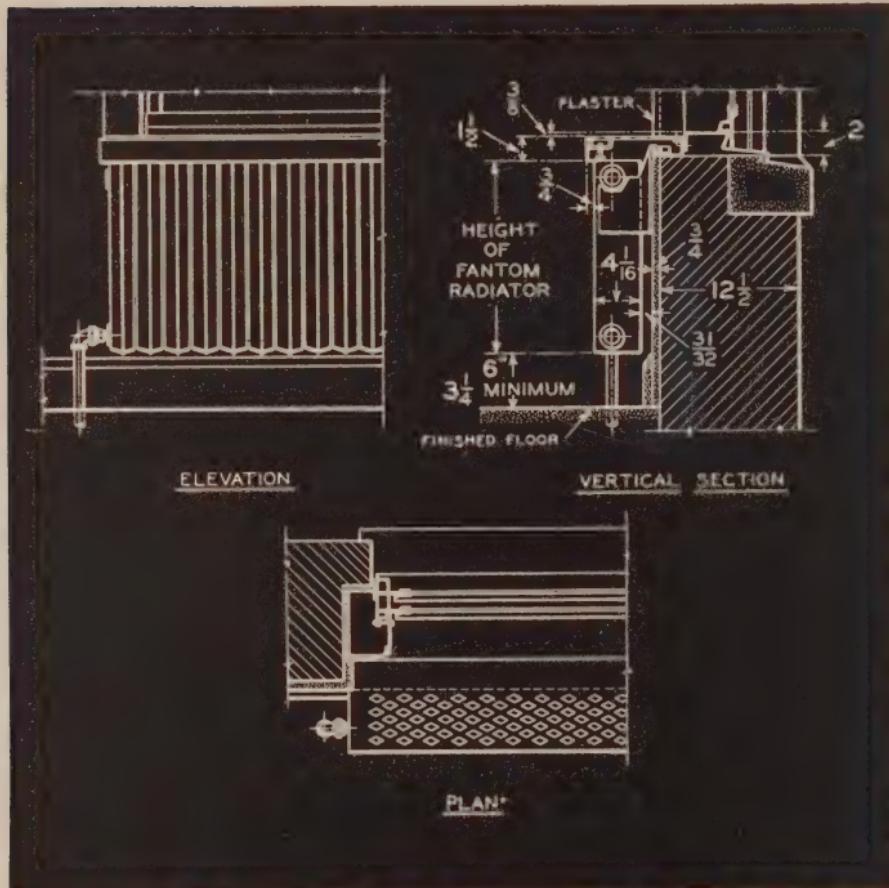
\* Add ½ inch to length for each bushing.

† Based on Engineering Standards of 215 degrees Fahrenheit steam temperature, 70 degrees room temperature and 240 B.t.u. per square foot per hour.

Regularly furnished without legs, but can be supplied on special order with 4½" legs only at no extra charge.

# AMERICAN RADIATORS

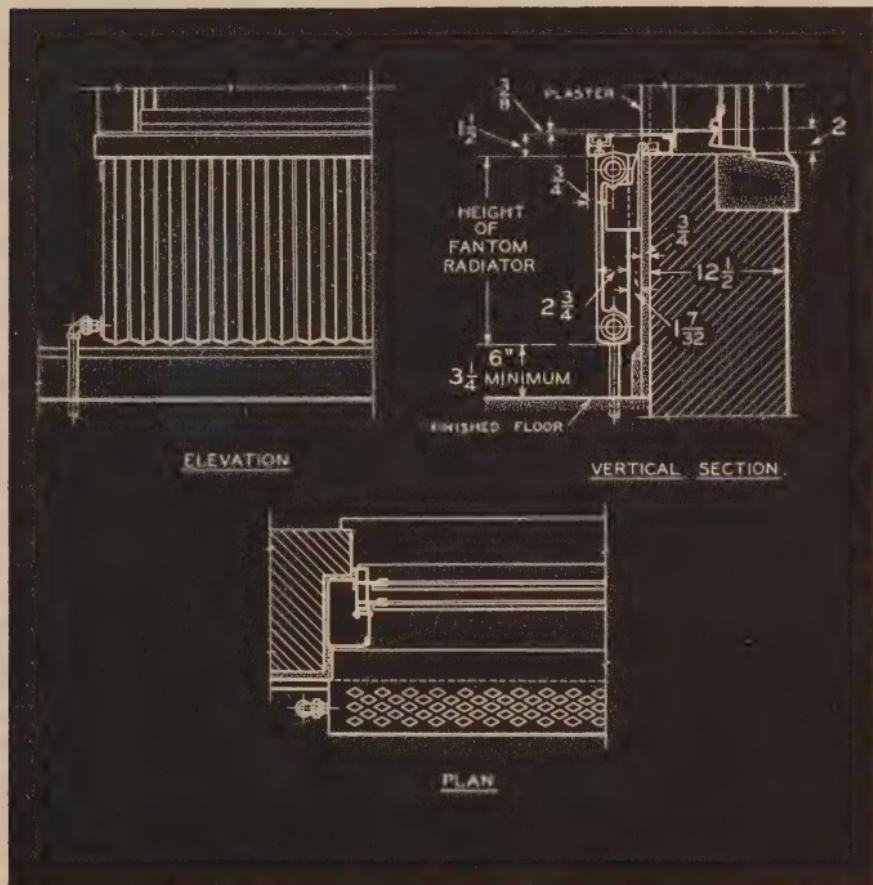
## AMERICAN FANTOM RADIATOR AND CAMPBELL METAL WINDOW



ARRANGEMENT OF CAMPBELL RESIDENCE TYPE WINDOW AND ONE TUBE  
AMERICAN FANTOM RADIATOR

# AMERICAN RADIATORS

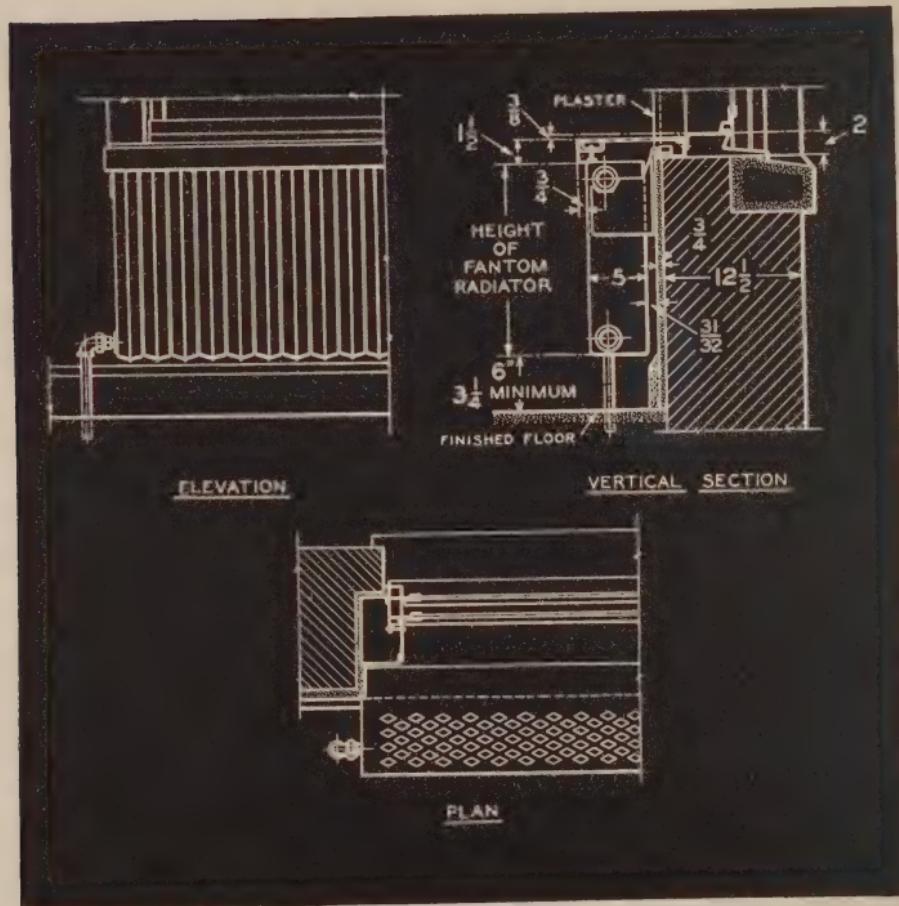
## AMERICAN FANTOM RADIATOR AND CAMPBELL METAL WINDOW



ARRANGEMENT OF CAMPBELL RESIDENCE TYPE WINDOW AND TWO TUBE  
AMERICAN FANTOM RADIATOR

# AMERICAN RADIATORS

## AMERICAN FANTOM RADIATOR AND CAMPBELL METAL WINDOW



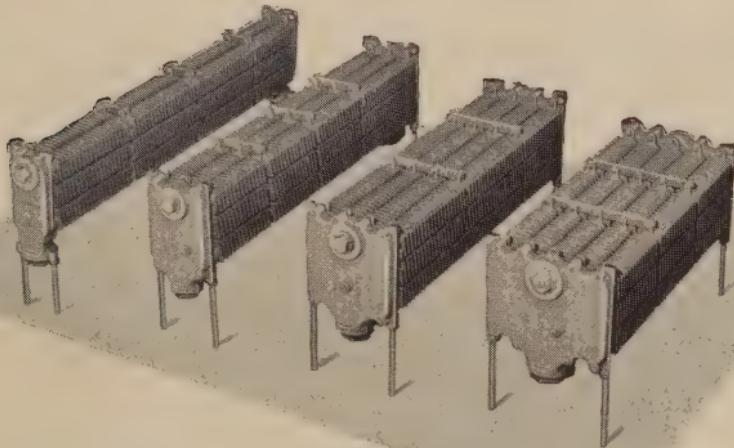
ARRANGEMENT OF CAMPBELL RESIDENCE TYPE WINDOW AND THREE TUBE  
AMERICAN FANTOM RADIATOR

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# AMERICAN RADIATORS

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## ARCO CONVECTOR



ILLUSTRATING THE FOUR WIDTHS OF  
THE ARCO CONVECTOR

No. 3-3/4" No. 5-5/8" No. 7-7/8" No. 9-9/16"

THE Arco Convector—ratings and detailed dimensions of which are presented on the following pages—is a product of the American Radiator Company, scientifically engineered, and carefully and dependably rated in the laboratory of the Institute of Thermal Research. It is manufactured in the plants of this Company which have for many years produced other highly satisfactory cast iron heating radiators and boilers.

The Arco Convector is a unit of assembled cast iron finned sections and headers united with malleable nipples.

The fins are cast integral with the cored sections and are spaced to allow a steady and continuous flow of heated air throughout the entire surface.

The sections have ample cored space to insure unhampered circulation of steam or hot water and proper air elimination at varying steam pressures.

The design of the Arco Convector provides an exceptionally flexible unit as to length and depth to meet the varying conditions of building construction and with its low height permits installation in minimum space allowances.

The tappings in the headers give a wide choice of piping connections to the Convector, simplifying the installation and, at times, eliminating costly piping arrangements which also require space that is not always available within the wall recess.

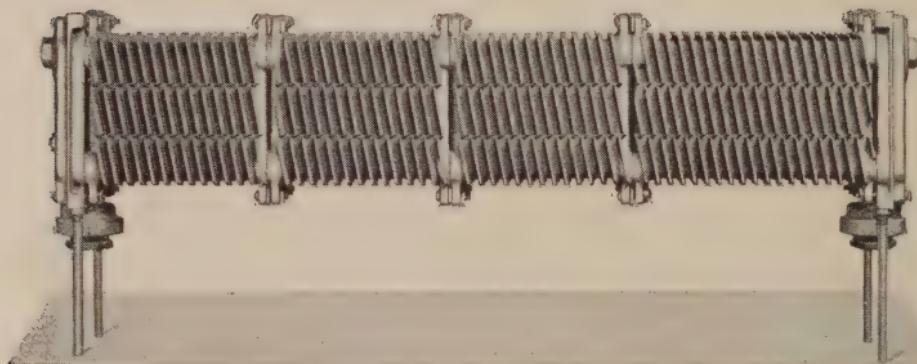
Arco Convector units are made of cast iron sections—all contacting surfaces of which are machine ground—assembled with malleable nipples and individual tie bolts at each nipple port. This construction develops an exceptionally sturdy unit—able to withstand the usual handling abuses met with before final installation.

Arco Convector units also possess a long “carry-over” output, a distinct advantage when installed with automatically controlled heating apparatus.

The Arco Convector is equally well adapted for steam, vapor or hot water systems and, when installed with Arco Enclosures, combines high heating efficiency with attractive appearance.

# AMERICAN RADIATORS

## ARCO CONVECTOR



A Unit No. 535 Arco Convector,  $5\frac{5}{8}$ " wide and  $35\frac{1}{2}$ " long, an assemblage of two headers (supply and return)  $1\cdot10$ " intermediate finned section and  $3\cdot7\frac{1}{2}$ " intermediate finned sections—with Type X 4-header connections for piping, and adjustable legs.

THE design of the Arco Convector provides units of four widths—No.  $3\cdot3\frac{3}{4}$ ", No.  $5\cdot5\frac{5}{8}$ ", No.  $7\cdot7\frac{5}{8}$ ", and No.  $9\cdot9\frac{1}{2}$ ", and in lengths varying in  $2\frac{1}{2}$ " steps, above  $13$ " long (except the  $15\frac{1}{2}$ " length).

The supply and return headers of every Arco Convector are each  $1\frac{1}{2}$ " in the length of the unit—The intermediate finned sections are made in two lengths.  $10$ " and  $7\frac{1}{2}$ ", and the proper selection of one or more sections of either or both lengths, assembled with the headers, provides units in lengths varying in  $2\frac{1}{2}$ " steps, as mentioned above and definitely shown on the rating charts on pages 31 and 32.

Malleable slip nipples are used in assembling the sections and headers—individual tie bolts at each nipple port insure leak proof connections which will not loosen despite the stresses and strains of handling.

Each header (supply and return) is reversible and, therefore, top, bottom, and side tappings are provided for piping connections.

The various types of piping connections are shown on page 30.

Arco Convector should be ordered with the proper type of connection specified and they will be shipped accordingly from the plant, bushed as desired. All tappings not used will be plugged.

The great variety of piping connections provided permit simple installation of steam, vapor and hot water systems in limited space allowances.

The No. 3, No. 5 and No. 7 units are tapped  $1\frac{1}{4}$ " and the No. 9 unit is tapped  $1\frac{1}{2}$ ".

Adjustable steel legs are furnished (without charge) to support the Convector, and are screwed into tappings in the bottom of each header, permitting adjustment for leveling or pitching the Convector as desired.

In ordering specify "Arco Convector," Unit number, type of connections and tapping sizes.

Unless otherwise specified all Arco Convector Units will be shipped with standard supporting legs of a height to bring the bottom of the fins on intermediate sections  $7$ " from floor.

Arco Enclosures, designed especially for the Arco Convector are fabricated by the American Radiator Company.

Their use with the Arco Convector insures to the owner, an attractive concealed unit of modern design.

Steam and water ratings of the Arco Convector as shown on pages 31 and 32 are based on installation with Front Outlet Grille Enclosures.

Where top outlet grilles are used in enclosures—output ratings may be increased as follows:

| 11" | Stack Heights | multiply ratings by | 1.15 |
|-----|---------------|---------------------|------|
| 13" | "             | "                   | 1.10 |
| 15" | "             | "                   | 1.06 |
| 17" | "             | "                   | 1.04 |
| 19" | "             | "                   | 1.02 |

No increase beyond 19" Stack heights.

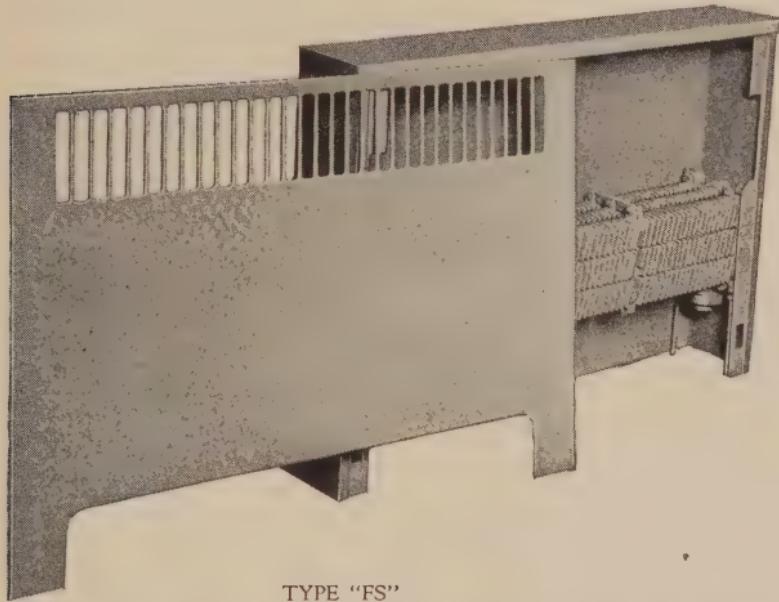
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# AMERICAN RADIATORS

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## ARCO CONVECTORS

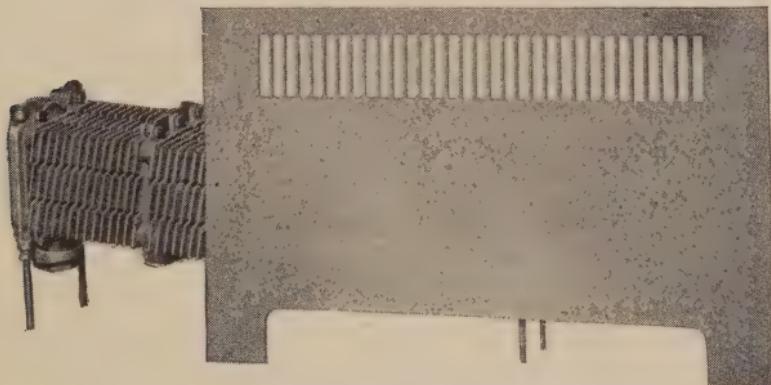
### Standard Enclosures and Front Panels COMPLETE ENCLOSURE



TYPE "FS"

Type "FS" is a complete enclosure for Arco Convector, consisting of top, back, ends and a removable front. It can be fully recessed, partially recessed or completely free standing in the room.

### FRONT PANEL TYPES



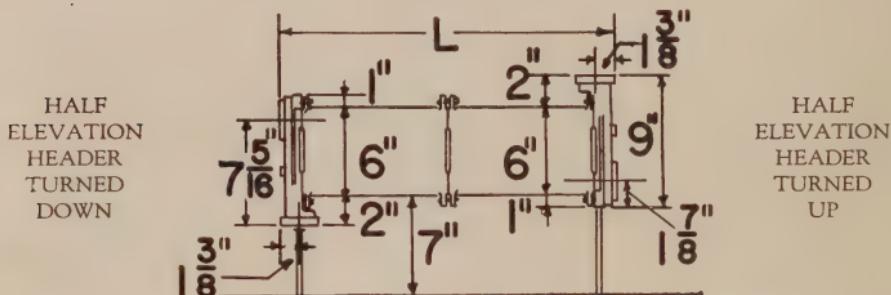
TYPE "FP"

Type "FP" is a Front Panel only for use with fully recessed Arco Convector units where the recess is of sufficient depth to allow flush treatment.

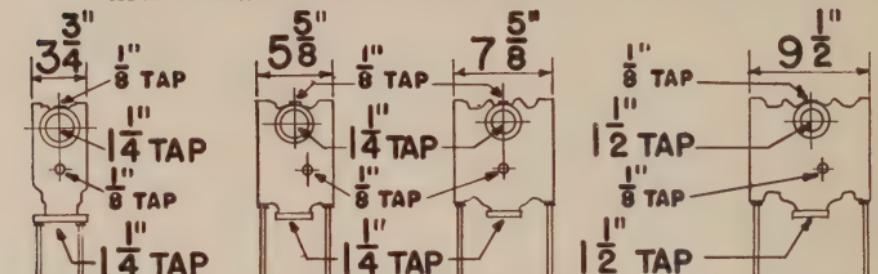
For complete line of Arco Radiator Enclosures see Arco Enclosure catalog.

# AMERICAN RADIATORS

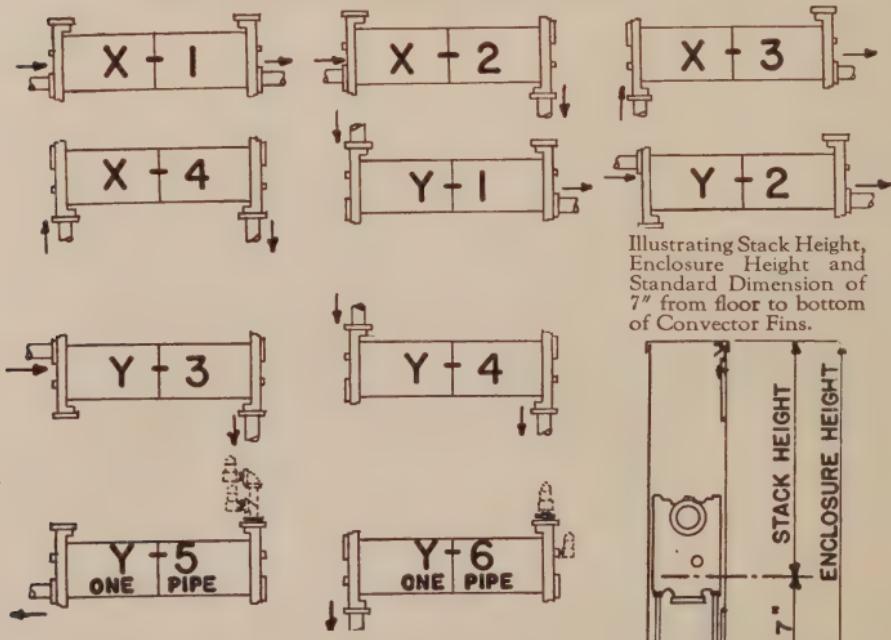
## ARCO CONVECTOR DIMENSIONS AND ASSEMBLAGES



END VIEWS ILLUSTRATING THE FOUR WIDTHS



ARCO CONVECTOR PIPING CONNECTIONS



# AMERICAN RADIATORS

## ARCO CONVECTOR STEAM OR WATER RATINGS

\*Output in Sq. Ft. Equivalent Direct Radiation

Convector No. 3 ( $3\frac{3}{4}$ " Wide)      Convector No. 5 ( $5\frac{5}{8}$ " Wide)

| Length in Inches    | 13  | 18  | 20 $\frac{1}{4}$ | 23   | 25 $\frac{1}{4}$ | 28   | 30 $\frac{1}{4}$ | 33   | 35 $\frac{1}{4}$ | 38   | 40 $\frac{1}{4}$ | 43   | 45 $\frac{1}{4}$ | 48   | 50 $\frac{1}{4}$ | 53   | 55 $\frac{1}{4}$ | 58   | 60 $\frac{1}{4}$ |      |
|---------------------|-----|-----|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|
| Unit No.            | 313 | 318 | 320              | 323  | 325              | 328  | 330              | 333  | 335              | 338  | 340              | 343  | 345              | 348  | 350              | 353  | 355              | 358  | 360              |      |
| 18                  | 11  | 6.0 | 8.4              | 9.7  | 10.9             | 12.1 | 13.3             | 14.5 | 15.8             | 17.0 | 18.2             | 19.4 | 20.6             | 21.8 | 23.1             | 24.3 | 25.5             | 26.7 | 28.0             | 29.2 |
| 20                  | 13  | 6.5 | 9.1              | 10.5 | 11.8             | 13.1 | 14.4             | 15.7 | 17.1             | 18.4 | 19.7             | 21.0 | 22.3             | 23.6 | 25.0             | 26.3 | 27.6             | 28.9 | 30.3             | 31.6 |
| 22                  | 15  | 7.0 | 9.8              | 11.2 | 12.7             | 14.1 | 15.5             | 16.9 | 18.4             | 19.8 | 21.3             | 22.6 | 24.1             | 25.4 | 26.9             | 28.3 | 29.8             | 31.1 | 32.6             | 34.0 |
| 24                  | 17  | 7.5 | 10.5             | 12.0 | 13.5             | 15.0 | 16.5             | 18.1 | 19.7             | 21.1 | 22.7             | 24.2 | 25.7             | 27.2 | 28.7             | 30.2 | 31.8             | 33.3 | 34.8             | 36.3 |
| STACK HEIGHT INCHES |     |     |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |
| 26                  | 19  | 7.8 | 11.0             | 12.6 | 14.2             | 15.8 | 17.4             | 19.0 | 20.6             | 22.2 | 23.8             | 25.3 | 26.9             | 28.5 | 30.1             | 31.7 | 33.3             | 34.9 | 36.5             | 38.1 |
| 29                  | 22  | 8.2 | 11.5             | 13.1 | 14.8             | 16.4 | 18.1             | 19.8 | 21.5             | 23.1 | 24.8             | 26.4 | 28.1             | 29.7 | 31.4             | 33.0 | 34.7             | 36.3 | 38.0             | 39.6 |
| 32                  | 25  | 8.4 | 11.8             | 13.5 | 15.2             | 16.9 | 18.6             | 20.4 | 22.1             | 23.8 | 25.5             | 27.2 | 28.9             | 30.6 | 32.3             | 34.0 | 35.7             | 37.4 | 39.1             | 40.8 |
| 35                  | 28  | 8.6 | 12.1             | 13.8 | 15.6             | 17.3 | 19.0             | 20.8 | 22.6             | 24.3 | 26.1             | 27.8 | 29.6             | 31.3 | 33.1             | 34.8 | 36.5             | 38.2 | 40.0             | 41.7 |
| ENCLOSURE HEIGHT    |     |     |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |
| 38                  | 31  | 8.8 | 12.3             | 14.1 | 15.9             | 17.6 | 19.4             | 21.2 | 23.0             | 24.7 | 26.5             | 28.3 | 30.1             | 31.8 | 33.6             | 35.4 | 37.2             | 38.9 | 40.7             | 42.5 |
| 42                  | 35  | 8.9 | 12.5             | 14.3 | 16.1             | 17.9 | 19.8             | 21.6 | 23.4             | 25.2 | 27.0             | 28.8 | 30.6             | 32.4 | 34.2             | 36.1 | 37.9             | 39.7 | 41.5             | 43.3 |
| 47                  | 40  | 9.1 | 12.8             | 14.6 | 16.5             | 18.3 | 20.2             | 22.0 | 23.9             | 25.7 | 27.6             | 29.4 | 31.3             | 33.1 | 35.0             | 38.7 | 40.5             | 42.4 | 44.2             | 45.9 |
| 57                  | 50  | 9.4 | 13.2             | 15.1 | 17.0             | 18.9 | 20.8             | 22.7 | 24.6             | 26.5 | 28.4             | 30.3 | 32.2             | 34.1 | 36.0             | 37.9 | 39.8             | 41.7 | 43.6             | 45.5 |

| Length in Inches    | 13  | 18   | 20 $\frac{1}{4}$ | 23   | 25 $\frac{1}{4}$ | 28   | 30 $\frac{1}{4}$ | 33   | 35 $\frac{1}{4}$ | 38   | 40 $\frac{1}{4}$ | 43   | 45 $\frac{1}{4}$ | 48   | 50 $\frac{1}{4}$ | 53   | 55 $\frac{1}{4}$ | 58   | 60 $\frac{1}{4}$ |      |
|---------------------|-----|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|
| Unit No.            | 513 | 518  | 520              | 523  | 525              | 528  | 530              | 533  | 535              | 538  | 540              | 543  | 545              | 548  | 550              | 553  | 555              | 558  | 560              |      |
| 18                  | 11  | 8.7  | 12.3             | 14.1 | 15.9             | 17.7 | 19.5             | 21.3 | 23.1             | 24.9 | 26.7             | 28.5 | 30.3             | 32.1 | 33.9             | 35.7 | 37.5             | 39.3 | 41.1             | 42.9 |
| 20                  | 13  | 9.5  | 13.5             | 15.4 | 17.4             | 19.3 | 21.3             | 23.2 | 25.2             | 27.2 | 29.2             | 31.1 | 33.1             | 35.0 | 37.0             | 38.9 | 40.9             | 42.8 | 44.8             | 46.7 |
| 22                  | 15  | 10.3 | 14.5             | 16.6 | 18.7             | 20.8 | 23.0             | 25.1 | 27.2             | 29.3 | 31.4             | 33.5 | 35.6             | 37.7 | 39.8             | 42.0 | 44.1             | 46.2 | 48.3             | 50.4 |
| 24                  | 17  | 10.9 | 15.4             | 17.6 | 19.9             | 22.2 | 24.4             | 26.6 | 28.9             | 31.1 | 33.4             | 35.6 | 37.9             | 40.1 | 42.4             | 44.6 | 46.8             | 49.0 | 51.3             | 53.5 |
| STACK HEIGHT INCHES |     |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |
| 26                  | 19  | 11.5 | 16.2             | 18.5 | 20.9             | 23.2 | 25.6             | 28.0 | 30.4             | 32.7 | 35.1             | 37.4 | 39.8             | 42.1 | 44.5             | 46.8 | 49.2             | 51.5 | 53.9             | 56.3 |
| 29                  | 22  | 12.0 | 17.0             | 19.4 | 21.9             | 24.4 | 26.9             | 29.3 | 31.8             | 34.3 | 36.8             | 39.2 | 41.7             | 44.2 | 46.7             | 49.1 | 51.6             | 54.0 | 56.5             | 59.0 |
| 32                  | 25  | 12.4 | 17.5             | 20.1 | 22.6             | 25.2 | 27.7             | 30.3 | 32.9             | 35.4 | 38.0             | 40.5 | 43.1             | 45.6 | 48.1             | 50.7 | 53.3             | 55.8 | 58.4             | 60.9 |
| 35                  | 28  | 12.7 | 17.9             | 20.5 | 23.1             | 25.7 | 28.3             | 30.9 | 33.5             | 36.1 | 38.7             | 41.3 | 43.9             | 46.5 | 49.1             | 51.7 | 54.3             | 56.9 | 59.5             | 62.1 |
| STACK HEIGHT INCHES |     |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |
| 38                  | 31  | 12.9 | 18.2             | 20.8 | 23.5             | 26.1 | 28.8             | 31.4 | 34.1             | 36.8 | 39.4             | 42.0 | 44.7             | 47.3 | 50.0             | 52.6 | 55.3             | 57.9 | 60.6             | 63.2 |
| 42                  | 35  | 13.5 | 18.6             | 21.3 | 24.0             | 26.7 | 29.4             | 32.1 | 34.8             | 37.5 | 40.2             | 42.9 | 45.6             | 48.4 | 51.1             | 53.8 | 56.5             | 59.2 | 61.9             | 64.6 |
| 47                  | 40  | 13.5 | 19.0             | 21.8 | 24.5             | 27.2 | 30.0             | 32.8 | 35.6             | 38.3 | 41.1             | 43.8 | 46.6             | 49.4 | 52.2             | 54.9 | 57.7             | 60.4 | 63.2             | 65.9 |
| 57                  | 50  | 13.8 | 19.5             | 22.4 | 25.2             | 28.1 | 30.9             | 33.8 | 36.6             | 39.4 | 42.3             | 45.1 | 48.0             | 50.8 | 53.7             | 56.5 | 59.4             | 62.2 | 65.1             | 67.9 |
| ENCLOSURE HEIGHT    |     |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |

Above ratings based on front outlet enclosures. For top outlet rating see table on page 28.

Standard Enclosure Heights are Stack Height Plus 7"

\*To determine size of radiator divide total heat loss in B.t.u. by 240 for steam at 215°, or by 150 B.t.u. for water at 175°. For other water temperatures see page 38.

# AMERICAN RADIATORS

## ARCO CONVECTOR STEAM OR WATER RATINGS

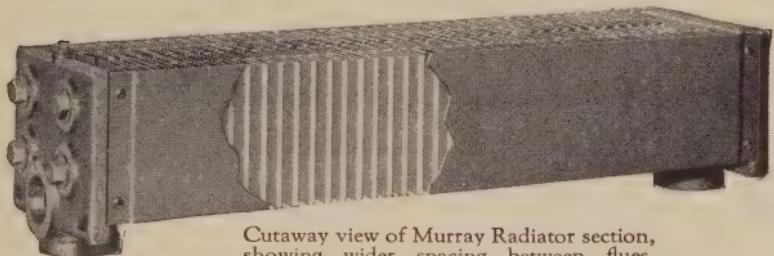
\*Output in Sq. Ft. Equivalent Direct Radiation

Convector No. 7 ( $7\frac{5}{8}$ " Wide)      Convector No. 9 ( $9\frac{1}{2}$ " Wide)

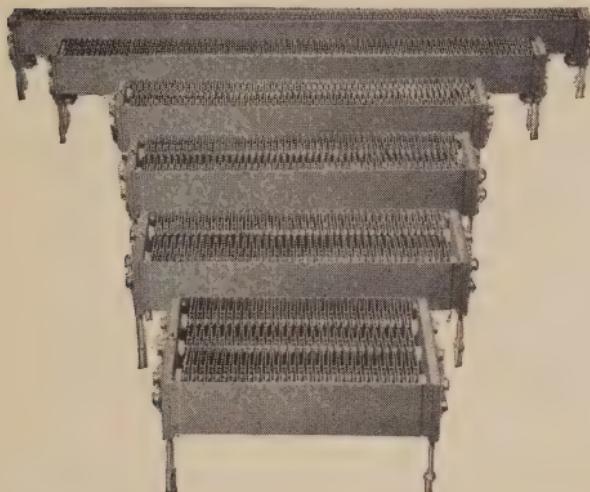
|                     |     |      |                 |      |                 |      |                 |        |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
|---------------------|-----|------|-----------------|------|-----------------|------|-----------------|--------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| Length in Inches    | 13  | 18   | $20\frac{1}{4}$ | 23   | $25\frac{3}{4}$ | 28   | $30\frac{1}{4}$ | 33     | $35\frac{1}{4}$ | 38   | $40\frac{1}{4}$ | 43   | $45\frac{1}{4}$ | 48   | $50\frac{1}{4}$ | 53   | $55\frac{1}{4}$ | 58   | $60\frac{1}{4}$ |      |
| Unit No.            | 713 | 718  | 720             | 723  | 725             | 728  | 730             | 733    | 735             | 738  | 740             | 743  | 745             | 748  | 750             | 753  | 755             | 758  | 760             |      |
| 20                  | 13  | 17.1 | 17.1            | 19.7 | 22.2            | 24.7 | 27.2            | 29.7   | 32.2            | 34.7 | 37.2            | 39.7 | 42.3            | 44.8 | 47.3            | 49.8 | 52.3            | 54.8 | 57.3            | 59.8 |
| 22                  | 15  | 12.9 | 18.3            | 21.0 | 23.6            | 26.3 | 29.0            | 31.7   | 34.4            | 37.0 | 39.7            | 42.3 | 45.0            | 47.7 | 50.4            | 53.1 | 55.8            | 58.4 | 61.1            | 63.8 |
| 24                  | 17  | 13.7 | 19.4            | 22.2 | 25.0            | 27.9 | 30.7            | 33.6   | 36.4            | 39.2 | 42.1            | 44.9 | 47.8            | 50.6 | 53.5            | 56.3 | 59.2            | 62.0 | 64.9            | 67.7 |
| 26                  | 19  | 14.4 | 20.4            | 23.4 | 26.4            | 29.4 | 32.4            | 35.4   | 38.4            | 41.3 | 44.3            | 47.3 | 50.3            | 53.3 | 56.3            | 59.3 | 62.3            | 65.3 | 68.3            | 71.3 |
| 29                  | 22  | 15.3 | 21.6            | 24.8 | 27.9            | 31.1 | 34.2            | 37.4   | 40.6            | 43.7 | 46.9            | 50.1 | 53.3            | 56.4 | 59.6            | 62.7 | 65.9            | 69.0 | 72.2            | 75.4 |
| 32                  | 25  | 15.9 | 22.5            | 25.8 | 29.1            | 32.4 | 35.7            | 39.0   | 42.3            | 45.6 | 48.7            | 52.2 | 55.5            | 58.7 | 62.0            | 65.3 | 68.6            | 71.9 | 75.2            | 78.5 |
| 35                  | 28  | 16.4 | 23.1            | 26.7 | 30.0            | 33.3 | 36.7            | 40.1   | 43.5            | 46.9 | 50.3            | 53.7 | 57.1            | 60.4 | 63.8            | 67.0 | 70.6            | 74.0 | 77.4            | 80.8 |
| 38                  | 31  | 16.7 | 23.7            | 27.1 | 30.6            | 34.0 | 37.5            | 41.0   | 44.5            | 47.9 | 51.4            | 54.9 | 58.4            | 61.8 | 65.3            | 68.8 | 72.3            | 75.7 | 79.2            | 82.6 |
| STACK HEIGHT INCHES |     |      |                 |      |                 |      |                 |        |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
| 42                  | 35  | 17.1 | 24.2            | 27.7 | 31.3            | 34.8 | 38.3            | 41.9   | 45.5            | 49.0 | 52.6            | 56.1 | 59.7            | 63.2 | 66.8            | 70.3 | 73.8            | 77.3 | 80.9            | 84.4 |
| 47                  | 40  | 17.5 | 24.7            | 28.4 | 32.0            | 35.6 | 39.3            | 42.9   | 46.6            | 50.1 | 53.8            | 57.4 | 61.1            | 64.7 | 68.4            | 72.0 | 75.7            | 79.2 | 82.9            | 86.5 |
| 52                  | 45  | 17.8 | 25.2            | 28.9 | 32.6            | 36.3 | 40.0            | 43.7   | 47.4            | 51.1 | 54.8            | 58.5 | 62.2            | 65.9 | 69.6            | 73.3 | 77.0            | 80.7 | 84.4            | 88.0 |
| 57                  | 50  | 18.1 | 25.7            | 29.4 | 33.2            | 37.0 | 40.7            | 44.5   | 48.3            | 52.0 | 55.8            | 59.5 | 63.3            | 67.0 | 70.8            | 74.5 | 78.3            | 82.0 | 85.8            | 89.5 |
| ENCLOSURE HEIGHT    |     |      |                 |      |                 |      |                 |        |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
| Length in Inches    | 13  | 18   | $20\frac{1}{4}$ | 23   | $25\frac{3}{4}$ | 28   | $30\frac{1}{4}$ | 33     | $35\frac{1}{4}$ | 38   | $40\frac{1}{4}$ | 43   | $45\frac{1}{4}$ | 48   | $50\frac{1}{4}$ | 53   | $55\frac{1}{4}$ | 58   | $60\frac{1}{4}$ |      |
| Unit No.            | 913 | 918  | 920             | 923  | 925             | 928  | 930             | 933    | 935             | 938  | 940             | 943  | 945             | 948  | 950             | 953  | 955             | 958  | 960             |      |
| 20                  | 13  | 14.5 | 20.6            | 23.7 | 26.7            | 29.8 | 32.8            | 35.9   | 38.9            | 41.9 | 45.0            | 48.0 | 51.1            | 54.1 | 57.2            | 60.2 | 63.3            | 66.3 | 69.4            | 72.4 |
| 22                  | 15  | 15.5 | 22.0            | 25.3 | 28.5            | 31.8 | 35.0            | 38.3   | 41.6            | 44.8 | 48.1            | 51.3 | 54.6            | 57.8 | 61.1            | 64.3 | 67.6            | 70.8 | 74.1            | 77.3 |
| 24                  | 17  | 16.5 | 23.4            | 26.9 | 30.3            | 33.8 | 37.2            | 40.7   | 44.2            | 47.6 | 51.1            | 54.5 | 58.0            | 61.4 | 64.9            | 68.3 | 71.8            | 75.2 | 78.7            | 82.1 |
| 26                  | 19  | 17.3 | 24.0            | 28.2 | 31.8            | 35.5 | 39.1            | 42.7   | 46.3            | 50.0 | 53.6            | 57.2 | 60.8            | 64.5 | 68.1            | 71.8 | 75.4            | 79.0 | 82.6            | 86.2 |
| ENCLOSURE HEIGHT    |     |      |                 |      |                 |      |                 |        |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
| Length in Inches    | 13  | 18   | $20\frac{1}{4}$ | 23   | $25\frac{3}{4}$ | 28   | $30\frac{1}{4}$ | 33     | $35\frac{1}{4}$ | 38   | $40\frac{1}{4}$ | 43   | $45\frac{1}{4}$ | 48   | $50\frac{1}{4}$ | 53   | $55\frac{1}{4}$ | 58   | $60\frac{1}{4}$ |      |
| Unit No.            | 913 | 918  | 920             | 923  | 925             | 928  | 930             | 933    | 935             | 938  | 940             | 943  | 945             | 948  | 950             | 953  | 955             | 958  | 960             |      |
| 20                  | 13  | 14.5 | 20.6            | 23.7 | 26.7            | 29.8 | 32.8            | 35.9   | 38.9            | 41.9 | 45.0            | 48.0 | 51.1            | 54.1 | 57.2            | 60.2 | 63.3            | 66.3 | 69.4            | 72.4 |
| 22                  | 15  | 15.5 | 22.0            | 25.3 | 28.5            | 31.8 | 35.0            | 38.3   | 41.6            | 44.8 | 48.1            | 51.3 | 54.6            | 57.8 | 61.1            | 64.3 | 67.6            | 70.8 | 74.1            | 77.3 |
| 24                  | 17  | 16.5 | 23.4            | 26.9 | 30.3            | 33.8 | 37.2            | 40.7   | 44.2            | 47.6 | 51.1            | 54.5 | 58.0            | 61.4 | 64.9            | 68.3 | 71.8            | 75.2 | 78.7            | 82.1 |
| 26                  | 19  | 17.3 | 24.0            | 28.2 | 31.8            | 35.5 | 39.1            | 42.7   | 46.3            | 50.0 | 53.6            | 57.2 | 60.8            | 64.5 | 68.1            | 71.8 | 75.4            | 79.0 | 82.6            | 86.2 |
| ENCLOSURE HEIGHT    |     |      |                 |      |                 |      |                 |        |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
| Length in Inches    | 13  | 18   | $20\frac{1}{4}$ | 23   | $25\frac{3}{4}$ | 28   | $30\frac{1}{4}$ | 33     | $35\frac{1}{4}$ | 38   | $40\frac{1}{4}$ | 43   | $45\frac{1}{4}$ | 48   | $50\frac{1}{4}$ | 53   | $55\frac{1}{4}$ | 58   | $60\frac{1}{4}$ |      |
| Unit No.            | 913 | 918  | 920             | 923  | 925             | 928  | 930             | 933    | 935             | 938  | 940             | 943  | 945             | 948  | 950             | 953  | 955             | 958  | 960             |      |
| 20                  | 13  | 14.5 | 20.6            | 23.7 | 26.7            | 29.8 | 32.8            | 35.9   | 38.9            | 41.9 | 45.0            | 48.0 | 51.1            | 54.1 | 57.2            | 60.2 | 63.3            | 66.3 | 69.4            | 72.4 |
| 22                  | 15  | 15.5 | 22.0            | 25.3 | 28.5            | 31.8 | 35.0            | 38.3   | 41.6            | 44.8 | 48.1            | 51.3 | 54.6            | 57.8 | 61.1            | 64.3 | 67.6            | 70.8 | 74.1            | 77.3 |
| 24                  | 17  | 16.5 | 23.4            | 26.9 | 30.3            | 33.8 | 37.2            | 40.7   | 44.2            | 47.6 | 51.1            | 54.5 | 58.0            | 61.4 | 64.9            | 68.3 | 71.8            | 75.2 | 78.7            | 82.1 |
| 26                  | 19  | 17.3 | 24.0            | 28.2 | 31.8            | 35.5 | 39.1            | 42.7   | 46.3            | 50.0 | 53.6            | 57.2 | 60.8            | 64.5 | 68.1            | 71.8 | 75.4            | 79.0 | 82.6            | 86.2 |
| STCK HEIGHT INCHES  |     |      |                 |      |                 |      |                 |        |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
| Length in Inches    | 13  | 18   | $20\frac{1}{4}$ | 23   | $25\frac{3}{4}$ | 28   | $30\frac{1}{4}$ | 33     | $35\frac{1}{4}$ | 38   | $40\frac{1}{4}$ | 43   | $45\frac{1}{4}$ | 48   | $50\frac{1}{4}$ | 53   | $55\frac{1}{4}$ | 58   | $60\frac{1}{4}$ |      |
| Unit No.            | 913 | 918  | 920             | 923  | 925             | 928  | 930             | 933    | 935             | 938  | 940             | 943  | 945             | 948  | 950             | 953  | 955             | 958  | 960             |      |
| 20                  | 13  | 14.5 | 20.6            | 23.7 | 26.7            | 29.8 | 32.8            | 35.9   | 38.9            | 41.9 | 45.0            | 48.0 | 51.1            | 54.1 | 57.2            | 60.2 | 63.3            | 66.3 | 69.4            | 72.4 |
| 22                  | 15  | 15.5 | 22.0            | 25.3 | 28.5            | 31.8 | 35.0            | 38.3   | 41.6            | 44.8 | 48.1            | 51.3 | 54.6            | 57.8 | 61.1            | 64.3 | 67.6            | 70.8 | 74.1            | 77.3 |
| 24                  | 17  | 16.5 | 23.4            | 26.9 | 30.3            | 33.8 | 37.2            | 40.7   | 44.2            | 47.6 | 51.1            | 54.5 | 58.0            | 61.4 | 64.9            | 68.3 | 71.8            | 75.2 | 78.7            | 82.1 |
| 26                  | 19  | 17.3 | 24.0            | 28.2 | 31.8            | 35.5 | 39.1            | 42.7   | 46.3            | 50.0 | 53.6            | 57.2 | 60.8            | 64.5 | 68.1            | 71.8 | 75.4            | 79.0 | 82.6            | 86.2 |
| STCK HEIGHT INCHES  |     |      |                 |      |                 |      |                 |        |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
| Length in Inches    | 13  | 18   | $20\frac{1}{4}$ | 23   | $25\frac{3}{4}$ | 28   | $30\frac{1}{4}$ | 33     | $35\frac{1}{4}$ | 38   | $40\frac{1}{4}$ | 43   | $45\frac{1}{4}$ | 48   | $50\frac{1}{4}$ | 53   | $55\frac{1}{4}$ | 58   | $60\frac{1}{4}$ |      |
| Unit No.            | 913 | 918  | 920             | 923  | 925             | 928  | 930             | 933    | 935             | 938  | 940             | 943  | 945             | 948  | 950             | 953  | 955             | 958  | 960             |      |
| 20                  | 13  | 14.5 | 20.6            | 23.7 | 26.7            | 29.8 | 32.8            | 35.9   | 38.9            | 41.9 | 45.0            | 48.0 | 51.1            | 54.1 | 57.2            | 60.2 | 63.3            | 66.3 | 69.4            | 72.4 |
| 22                  | 15  | 15.5 | 22.0            | 25.3 | 28.5            | 31.8 | 35.0            | 38.3   | 41.6            | 44.8 | 48.1            | 51.3 | 54.6            | 57.8 | 61.1            | 64.3 | 67.6            | 70.8 | 74.1            | 77.3 |
| 24                  | 17  | 16.5 | 23.4            | 26.9 | 30.3            | 33.8 | 37.2            | 40.7   | 44.2            | 47.6 | 51.1            | 54.5 | 58.0            | 61.4 | 64.9            | 68.3 | 71.8            | 75.2 | 78.7            | 82.1 |
| 26                  | 19  | 17.3 | 24.0            | 28.2 | 31.8            | 35.5 | 39.1            | 42.7   | 46.3            | 50.0 | 53.6            | 57.2 | 60.8            | 64.5 | 68.1            | 71.8 | 75.4            | 79.0 | 82.6            | 86.2 |
| STCK HEIGHT INCHES  |     |      |                 |      |                 |      |                 |        |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
| Length in Inches    | 13  | 18   | $20\frac{1}{4}$ | 23   | $25\frac{3}{4}$ | 28   | $30\frac{1}{4}$ | 33     | $35\frac{1}{4}$ | 38   | $40\frac{1}{4}$ | 43   | $45\frac{1}{4}$ | 48   | $50\frac{1}{4}$ | 53   | $55\frac{1}{4}$ | 58   | $60\frac{1}{4}$ |      |
| Unit No.            | 913 | 918  | 920             | 923  | 925             | 928  | 930             | 933    | 935             | 938  | 940             | 943  | 945             | 948  | 950             | 953  | 955             | 958  | 960             |      |
| 20                  | 13  | 14.5 | 20.6            | 23.7 | 26.7            | 29.8 | 32.8            | 35.9   | 38.9            | 41.9 | 45.0            | 48.0 | 51.1            | 54.1 | 57.2            | 60.2 | 63.3            | 66.3 | 69.4            | 72.4 |
| 22                  | 15  | 15.5 | 22.0            | 25.3 | 28.5            | 31.8 | 35.0            | 38.3   | 41.6            | 44.8 | 48.1            | 51.3 | 54.6            | 57.8 | 61.1            | 64.3 | 67.6            | 70.8 | 74.1            | 77.3 |
| 24                  | 17  | 16.5 | 23.4            | 26.9 | 30.3            | 33.8 | 37.2            | 40.7   | 44.2            | 47.6 | 51.1            | 54.5 | 58.0            | 61.4 | 64.9            | 68.3 | 71.8            | 75.2 | 78.7            | 82.1 |
| 26                  | 19  | 17.3 | 24.0            | 28.2 | 31.8            | 35.5 | 39.1            | 42.7   | 46.3            | 50.0 | 53.6            | 57.2 | 60.8            | 64.5 | 68.1            | 71.8 | 75.4            | 79.0 | 82.6            | 86.2 |
| STCK HEIGHT INCHES  |     |      |                 |      |                 |      |                 |        |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
| Length in Inches    | 13  | 18   | $20\frac{1}{4}$ | 23   | $25\frac{3}{4}$ | 28   | $30\frac{1}{4}$ | 33     | $35\frac{1}{4}$ | 38   | $40\frac{1}{4}$ | 43   | $45\frac{1}{4}$ | 48   | $50\frac{1}{4}$ | 53   | $55\frac{1}{4}$ | 58   | $60\frac{1}{4}$ |      |
| Unit No.            | 913 | 918  | 920             | 923  | 925             | 928  | 930             | 933    | 935             | 938  | 940             | 943  | 945             | 948  | 950             | 953  | 955             | 958  | 960             |      |
| 20                  | 13  | 14.5 | 20.6            | 23.7 | 26.7            | 29.8 | 32.8            | 35.9   | 38.9            | 41.9 | 45.0            | 48.0 | 51.1            | 54.1 | 57.2            | 60.2 | 63.3            | 66.3 | 69.4            | 72.4 |
| 22                  | 15  | 15.5 | 22.0            | 25.3 | 28.5            | 31.8 | 35.0            | 38.3   | 41.6            | 44.8 | 48.1            | 51.3 | 54.6            | 57.8 | 61.1            | 64.3 | 67.6            | 70.8 | 74.1            | 77.3 |
| 24                  | 17  | 16.5 | 23.4            | 26.9 | 30.3            | 33.8 | 37.2            | 40.7   | 44.2            | 47.6 | 51.1            | 54.5 | 58.0            | 61.4 | 64.9            | 68.3 | 71.8            | 75.2 | 78.7            | 82.1 |
| 26                  | 19  | 17.3 | 24.0            | 28.2 | 31.8            | 35.5 | 39.1            | 42.7   | 46.3            | 50.0 | 53.6            | 57.2 | 60.8            | 64.5 | 68.1            | 71.8 | 75.4            | 79.0 | 82.6            | 86.2 |
| STCK HEIGHT INCHES  |     |      |                 |      |                 |      |                 |        |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
| Length in Inches    | 13  | 18   | $20\frac{1}{4}$ | 23   | $25\frac{3}{4}$ | 28   | $30\frac{1}{4}$ | 33</td |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |

# AMERICAN RADIATORS

## NEW MURRAY RADIATORS



Cutaway view of Murray Radiator section,  
showing wider spacing between flues.

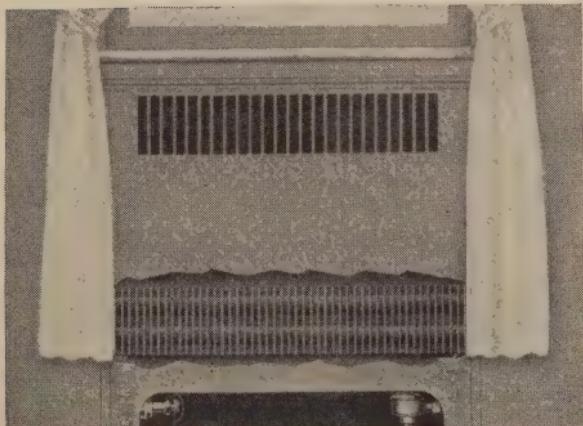


In the field of non-ferrous type radiation, the New Murray Radiator has achieved outstanding success. Years of designing and testing in our laboratories has placed it on a high level of service in point of efficient and hygienic operation.

The New Murray Radiator is made in six widths — No. 2,  $2\frac{3}{8}$ " wide; No. 3,  $3\frac{3}{4}$ " wide; No. 5, 5" wide; No. 6,  $6\frac{3}{8}$ " wide; No. 7,  $7\frac{3}{4}$ " wide; and No. 10,  $10\frac{3}{8}$ " wide.

It is equally well adapted for one or two pipe steam, vapor or hot water systems and, when installed with Arco Enclosures, combines high heating efficiency with attractive appearance.

Arco Enclosures are made specially for New Murray Radiators, and are correctly designed and proportioned to assure easy installation and utmost efficiency of the Radiators. See Arco Enclosure catalog for complete data.

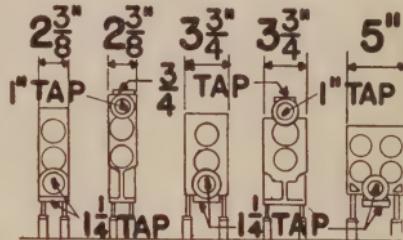
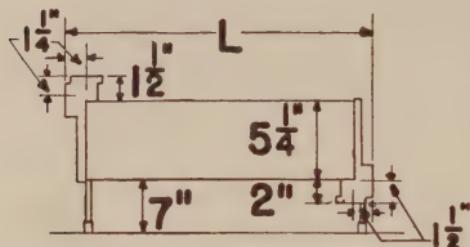


# AMERICAN RADIATORS

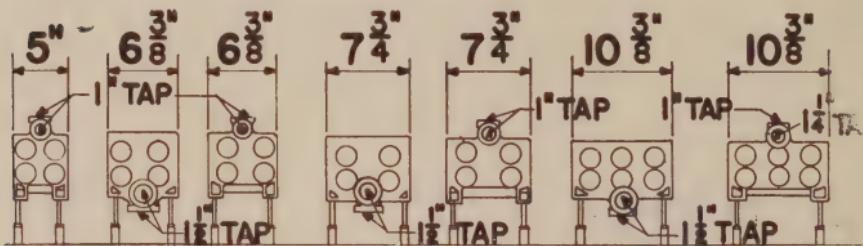
## NEW MURRAY RADIATOR DIMENSIONS AND ASSEMBLAGES

TYPICAL RADIATOR ELEVATION

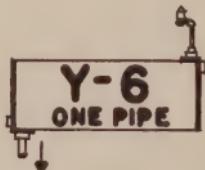
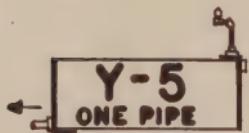
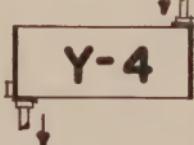
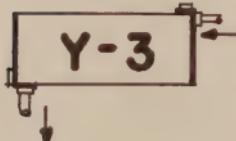
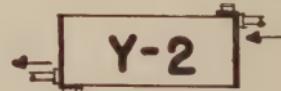
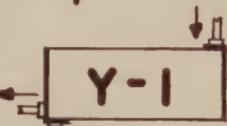
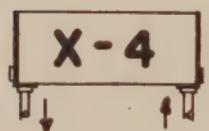
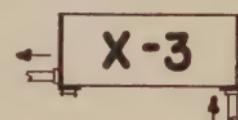
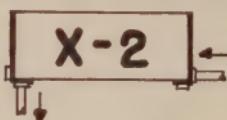
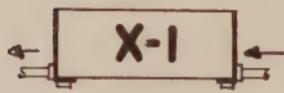
END VIEWS—SIX AVAILABLE WIDTHS



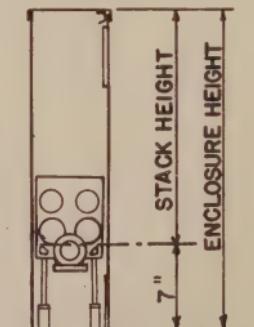
END VIEWS—SIX AVAILABLE WIDTHS



PIPING CONNECTIONS



Illustrating Stack Height,  
Enclosure Height and  
Standard Dimension of  
7" from floor to bottom  
of Radiator Fins.



# AMERICAN RADIATORS

## NEW MURRAY STEAM AND WATER RADIATOR RATINGS

\*Output in Sq. Ft. Equivalent Direct Radiation

Radiator No. 2 (2 $\frac{3}{8}$ " Wide)

Radiator No. 3 (3 $\frac{3}{4}$ " Wide)

| Length in Inches    | 12 $\frac{1}{2}$ | 15  | 17 $\frac{1}{2}$ | 20  | 22 $\frac{1}{2}$ | 25   | 27 $\frac{1}{2}$ | 30   | 32 $\frac{1}{2}$ | 35   | 37 $\frac{1}{2}$ | 40   | 42 $\frac{1}{2}$ | 45   | 47 $\frac{1}{2}$ | 50   | 52 $\frac{1}{2}$ | 55   | 57 $\frac{1}{2}$ | 60   |      |
|---------------------|------------------|-----|------------------|-----|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------|
| Unit No.            | 212              | 215 | 217              | 220 | 222              | 225  | 227              | 230  | 232              | 235  | 237              | 240  | 242              | 245  | 247              | 250  | 252              | 255  | 257              | 260  |      |
| STACK HEIGHT INCHES | 11               | 5.9 | 7.2              | 8.5 | 9.9              | 11.2 | 12.5             | 13.9 | 15.2             | 16.5 | 17.8             | 19.2 | 20.5             | 21.8 | 23.1             | 24.4 | 25.7             | 27.1 | 28.4             | 29.7 | 31.0 |
| ENCLOSURE HEIGHT    | 18               | 13  | 6.1              | 7.5 | 8.8              | 10.2 | 11.6             | 13.0 | 14.3             | 15.7 | 17.1             | 18.4 | 19.8             | 21.1 | 22.5             | 23.8 | 25.2             | 26.5 | 27.9             | 29.3 | 31.9 |
| ENCLOSURE HEIGHT    | 22               | 15  | 6.3              | 7.7 | 9.1              | 10.5 | 11.9             | 13.3 | 14.7             | 16.2 | 17.6             | 18.9 | 20.3             | 21.7 | 23.1             | 24.4 | 25.9             | 27.3 | 28.7             | 30.0 | 31.4 |
| ENCLOSURE HEIGHT    | 24               | 17  | 6.4              | 7.8 | 9.3              | 10.7 | 12.2             | 13.6 | 15.1             | 16.5 | 18.0             | 19.4 | 20.8             | 22.2 | 23.7             | 25.1 | 26.5             | 27.9 | 29.4             | 30.8 | 32.2 |
| ENCLOSURE HEIGHT    | 26               | 19  | 6.6              | 8.0 | 9.5              | 11.0 | 12.4             | 13.9 | 15.4             | 16.8 | 18.3             | 19.7 | 21.2             | 22.7 | 24.2             | 25.6 | 27.1             | 28.5 | 30.0             | 31.5 | 34.0 |
| ENCLOSURE HEIGHT    | 29               | 22  | 6.8              | 8.3 | 9.8              | 11.3 | 12.8             | 14.3 | 15.8             | 17.3 | 18.8             | 20.2 | 21.8             | 23.3 | 24.8             | 26.3 | 27.8             | 29.3 | 30.9             | 32.4 | 33.9 |
| ENCLOSURE HEIGHT    | 32               | 25  | 6.9              | 8.5 | 10.0             | 11.6 | 13.1             | 14.6 | 16.2             | 17.7 | 19.3             | 20.8 | 22.4             | 23.9 | 25.5             | 27.0 | 28.5             | 30.0 | 31.6             | 33.1 | 34.7 |
| ENCLOSURE HEIGHT    | 35               | 28  | 7.1              | 8.6 | 10.2             | 11.8 | 13.3             | 15.0 | 16.5             | 18.0 | 19.6             | 21.2 | 22.8             | 24.3 | 25.9             | 27.5 | 29.1             | 30.6 | 32.2             | 33.8 | 35.4 |
| ENCLOSURE HEIGHT    | 38               | 31  | 7.2              | 8.8 | 10.4             | 12.0 | 13.5             | 15.2 | 16.8             | 18.4 | 20.0             | 21.6 | 23.2             | 24.8 | 26.4             | 27.9 | 29.5             | 31.1 | 32.7             | 34.3 | 37.6 |
| ENCLOSURE HEIGHT    | 42               | 35  | 7.3              | 9.0 | 10.5             | 12.2 | 13.8             | 15.4 | 17.1             | 18.7 | 20.3             | 21.9 | 23.5             | 25.2 | 26.8             | 28.4 | 30.0             | 31.7 | 33.4             | 35.0 | 38.2 |
| ENCLOSURE HEIGHT    | 47               | 40  | 7.4              | 9.0 | 10.7             | 12.3 | 14.0             | 15.6 | 17.3             | 18.9 | 20.6             | 22.2 | 23.9             | 25.5 | 27.2             | 28.8 | 30.5             | 32.1 | 33.8             | 35.4 | 37.8 |
| ENCLOSURE HEIGHT    | 57               | 50  | 7.6              | 9.2 | 10.9             | 12.5 | 14.0             | 15.6 | 17.6             | 19.3 | 21.0             | 22.7 | 24.4             | 26.1 | 27.8             | 29.4 | 31.1             | 32.7 | 34.4             | 36.1 | 39.4 |
| ENCLOSURE HEIGHT    | 67               | 60  | 7.7              | 9.3 | 11.0             | 12.7 | 14.4             | 16.3 | 17.8             | 19.5 | 21.0             | 22.9 | 24.6             | 26.3 | 28.0             | 29.7 | 31.4             | 33.1 | 34.8             | 36.4 | 39.8 |

| Length in Inches    | 12 $\frac{1}{2}$ | 15  | 17 $\frac{1}{2}$ | 20   | 22 $\frac{1}{2}$ | 25   | 27 $\frac{1}{2}$ | 30   | 32 $\frac{1}{2}$ | 35   | 37 $\frac{1}{2}$ | 40   | 42 $\frac{1}{2}$ | 45   | 47 $\frac{1}{2}$ | 50   | 52 $\frac{1}{2}$ | 55   | 57 $\frac{1}{2}$ | 60   |      |
|---------------------|------------------|-----|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------|
| Unit No.            | 312              | 315 | 317              | 320  | 322              | 325  | 327              | 330  | 332              | 335  | 337              | 340  | 342              | 345  | 347              | 350  | 352              | 355  | 357              | 360  |      |
| STACK HEIGHT INCHES | 11               | 8.0 | 9.8              | 11.6 | 13.4             | 15.2 | 16.9             | 18.8 | 20.6             | 22.4 | 24.2             | 26.0 | 27.8             | 29.7 | 31.5             | 33.3 | 35.1             | 36.9 | 38.6             | 40.5 | 42.3 |
| ENCLOSURE HEIGHT    | 18               | 13  | 8.3              | 10.1 | 11.9             | 13.8 | 15.6             | 17.4 | 19.3             | 21.1 | 23.0             | 24.9 | 26.7             | 28.5 | 30.4             | 32.2 | 34.1             | 35.9 | 37.8             | 39.6 | 41.5 |
| ENCLOSURE HEIGHT    | 22               | 15  | 8.4              | 10.3 | 12.2             | 14.1 | 16.0             | 17.8 | 19.7             | 21.6 | 23.5             | 25.4 | 27.3             | 29.2 | 31.1             | 32.9 | 34.8             | 36.6 | 38.6             | 40.5 | 42.4 |
| ENCLOSURE HEIGHT    | 24               | 17  | 8.6              | 10.5 | 12.4             | 14.3 | 16.3             | 18.2 | 20.1             | 22.0 | 24.0             | 25.9 | 27.8             | 29.7 | 31.7             | 33.6 | 35.5             | 37.4 | 39.5             | 41.6 | 45.1 |
| ENCLOSURE HEIGHT    | 26               | 19  | 8.8              | 10.7 | 12.7             | 14.6 | 16.5             | 18.3 | 20.5             | 22.4 | 24.4             | 26.3 | 28.3             | 30.3 | 32.2             | 34.1 | 36.1             | 38.1 | 40.1             | 42.0 | 44.9 |
| ENCLOSURE HEIGHT    | 29               | 22  | 8.9              | 10.9 | 13.0             | 15.0 | 16.9             | 18.9 | 20.9             | 22.9 | 24.9             | 26.8 | 28.9             | 30.9 | 32.9             | 34.9 | 36.9             | 38.8 | 40.9             | 42.9 | 44.9 |
| ENCLOSURE HEIGHT    | 32               | 25  | 9.1              | 11.1 | 13.2             | 15.3 | 17.3             | 19.3 | 21.4             | 23.3 | 25.4             | 27.4 | 29.5             | 31.5 | 33.5             | 35.5 | 37.6             | 39.6 | 41.7             | 43.7 | 45.7 |
| ENCLOSURE HEIGHT    | 35               | 28  | 9.3              | 11.3 | 13.4             | 15.5 | 17.6             | 19.6 | 21.7             | 23.8 | 25.9             | 27.9 | 30.0             | 32.0 | 34.1             | 36.2 | 38.3             | 40.3 | 42.4             | 44.4 | 46.5 |
| ENCLOSURE HEIGHT    | 38               | 31  | 9.4              | 11.6 | 13.6             | 15.7 | 17.8             | 19.9 | 22.0             | 24.1 | 26.3             | 28.4 | 30.5             | 32.6 | 34.7             | 36.8 | 38.9             | 40.9 | 43.0             | 45.1 | 47.3 |
| ENCLOSURE HEIGHT    | 42               | 40  | 9.7              | 11.9 | 14.1             | 16.2 | 18.3             | 20.5 | 22.7             | 24.9 | 27.1             | 29.2 | 31.4             | 33.6 | 35.7             | 37.8 | 39.9             | 41.6 | 43.8             | 45.9 | 48.1 |
| ENCLOSURE HEIGHT    | 52               | 50  | 9.9              | 12.1 | 14.3             | 16.5 | 18.7             | 20.9 | 23.1             | 25.3 | 27.5             | 29.7 | 31.9             | 34.1 | 36.4             | 38.6 | 40.8             | 42.2 | 44.4             | 46.7 | 49.6 |
| ENCLOSURE HEIGHT    | 67               | 60  | 10.0             | 12.2 | 14.4             | 16.6 | 18.9             | 21.1 | 23.3             | 25.5 | 27.8             | 30.0 | 32.2             | 34.4 | 36.7             | 38.9 | 41.1             | 43.3 | 45.6             | 47.9 | 50.2 |

Standard Enclosure Heights are Stack Height Plus 7"

\*To determine size of radiator divide total heat loss in B.t.u. by 240 for steam at 215°, or by 150 B.t.u. for water at 175°. For other water temperatures see page 38.

# AMERICAN RADIATORS

## NEW MURRAY STEAM AND WATER RADIATOR RATINGS

\*Output in Sq. Ft. Equivalent Direct Radiation

Radiator No. 5 (5" Wide)

Radiator No. 6 (6 $\frac{3}{8}$ " Wide)

| Length in Inches | 16   | 17 $\frac{1}{4}$ | 20   | 22 $\frac{1}{4}$ | 25   | 27 $\frac{1}{4}$ | 30   | 32 $\frac{1}{4}$ | 35   | 37 $\frac{1}{4}$ | 40   | 42 $\frac{1}{4}$ | 45   | 47 $\frac{1}{4}$ | 50   | 52 $\frac{1}{4}$ | 55   | 57 $\frac{1}{4}$ | 60   |
|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|
| Unit No.         | 512  | 515              | 517  | 520              | 525  | 527              | 530  | 532              | 535  | 537              | 540  | 542              | 545  | 547              | 550  | 552              | 555  | 557              | 560  |
| 18               | 11.0 | 13.5             | 16.0 | 18.5             | 21.0 | 23.4             | 26.0 | 28.4             | 30.9 | 33.4             | 36.0 | 38.5             | 41.1 | 43.6             | 46.1 | 48.5             | 51.0 | 53.5             | 56.0 |
| 20               | 11.2 | 13.9             | 16.4 | 18.9             | 21.5 | 24.0             | 26.6 | 29.2             | 31.7 | 34.2             | 36.8 | 39.4             | 42.0 | 44.6             | 47.1 | 49.6             | 52.2 | 54.7             | 58.5 |
| 22               | 11.4 | 14.1             | 16.7 | 19.4             | 21.9 | 24.5             | 27.2 | 29.7             | 32.4 | 35.0             | 37.7 | 40.3             | 42.9 | 45.4             | 48.0 | 50.6             | 53.2 | 55.8             | 59.4 |
| 24               | 11.7 | 14.4             | 17.1 | 19.7             | 22.3 | 25.0             | 27.6 | 30.3             | 32.9 | 35.5             | 38.3 | 41.0             | 43.6 | 46.2             | 48.9 | 51.5             | 54.2 | 56.8             | 61.0 |
| 26               | 19   | 21.9             | 14.6 | 17.3             | 20.0 | 22.7             | 25.4 | 28.2             | 30.8 | 33.5             | 36.2 | 38.9             | 41.6 | 44.3             | 47.0 | 49.7             | 52.4 | 55.1             | 57.8 |
| 28               | 22   | 22.3             | 14.9 | 17.6             | 20.4 | 23.1             | 25.9 | 28.8             | 31.5 | 34.2             | 36.9 | 39.7             | 42.4 | 45.2             | 47.9 | 50.7             | 53.4 | 56.2             | 58.9 |
| 30               | 25   | 25.4             | 15.2 | 17.9             | 20.7 | 23.5             | 26.3 | 29.1             | 31.9 | 34.7             | 37.5 | 40.3             | 43.0 | 45.8             | 48.6 | 51.4             | 54.2 | 57.0             | 59.7 |
| 32               | 28   | 28               | 12.5 | 15.4             | 18.3 | 21.0             | 23.9 | 26.7             | 29.6 | 32.4             | 35.2 | 38.0             | 40.8 | 43.6             | 46.5 | 49.3             | 52.2 | 55.0             | 57.8 |
| 35               | 35   | 35               | 12.9 | 15.8             | 18.7 | 21.7             | 24.5 | 27.4             | 30.4 | 33.2             | 36.1 | 39.0             | 42.0 | 44.9             | 47.8 | 50.6             | 53.5 | 56.4             | 59.4 |
| 40               | 40   | 40               | 13.1 | 16.1             | 19.0 | 22.0             | 24.9 | 27.8             | 30.8 | 33.6             | 36.7 | 39.6             | 42.6 | 45.5             | 48.5 | 51.4             | 54.3 | 57.3             | 60.1 |
| 50               | 50   | 50               | 13.4 | 16.4             | 19.4 | 22.4             | 25.4 | 28.4             | 31.4 | 34.5             | 37.6 | 40.6             | 43.6 | 46.5             | 49.5 | 52.5             | 55.6 | 58.6             | 61.7 |
| 60               | 60   | 60               | 13.6 | 16.7             | 19.8 | 22.9             | 25.9 | 29.0             | 32.1 | 35.2             | 38.3 | 41.4             | 44.5 | 47.5             | 50.6 | 53.6             | 56.7 | 59.8             | 62.9 |

| Length in Inches | 15   | 17 $\frac{1}{4}$ | 20   | 22 $\frac{1}{4}$ | 25   | 27 $\frac{1}{4}$ | 30   | 32 $\frac{1}{4}$ | 35   | 37 $\frac{1}{4}$ | 40   | 42 $\frac{1}{4}$ | 45   | 47 $\frac{1}{4}$ | 50   | 52 $\frac{1}{4}$ | 55   | 57 $\frac{1}{4}$ | 60   |
|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|
| Unit No.         | 612  | 615              | 617  | 620              | 622  | 625              | 627  | 630              | 632  | 635              | 637  | 640              | 642  | 645              | 647  | 650              | 652  | 655              | 660  |
| 18               | 11.3 | 16.3             | 19.3 | 22.4             | 25.5 | 28.5             | 31.6 | 34.7             | 37.7 | 40.7             | 43.7 | 46.7             | 49.8 | 52.8             | 55.9 | 59.0             | 62.0 | 65.0             | 68.1 |
| 20               | 13.6 | 16.7             | 19.8 | 22.9             | 26.0 | 29.0             | 32.1 | 35.2             | 38.4 | 41.5             | 44.6 | 47.6             | 50.7 | 53.8             | 56.9 | 60.0             | 63.1 | 66.2             | 69.3 |
| 22               | 13.9 | 17.1             | 20.1 | 23.3             | 26.4 | 29.6             | 32.7 | 35.8             | 39.0 | 42.1             | 45.3 | 48.4             | 51.6 | 54.7             | 57.9 | 61.0             | 64.1 | 67.2             | 70.4 |
| 24               | 14.1 | 17.3             | 20.5 | 23.7             | 26.8 | 30.0             | 33.2 | 36.4             | 39.6 | 42.8             | 46.0 | 49.2             | 52.4 | 55.6             | 58.8 | 62.0             | 65.2 | 68.3             | 71.5 |
| 26               | 19   | 14.3             | 17.5 | 20.7             | 24.0 | 27.2             | 30.5 | 33.7             | 37.0 | 40.2             | 43.4 | 46.7             | 49.9 | 53.1             | 56.3 | 59.6             | 62.8 | 66.1             | 69.3 |
| 28               | 22   | 14.5             | 17.8 | 21.1             | 24.4 | 27.7             | 31.0 | 34.3             | 37.5 | 41.0             | 44.2 | 47.5             | 50.8 | 54.1             | 57.4 | 60.7             | 64.0 | 67.3             | 71.8 |
| 30               | 25   | 15.0             | 18.4 | 21.8             | 25.2 | 28.6             | 32.0 | 35.3             | 38.1 | 41.5             | 44.9 | 48.4             | 51.6 | 55.0             | 58.2 | 61.7             | 65.0 | 68.4             | 72.7 |
| 35               | 28   | 15.2             | 18.6 | 22.0             | 25.5 | 28.8             | 32.4 | 35.8             | 39.2 | 42.7             | 46.1 | 49.6             | 53.0 | 56.4             | 59.8 | 63.3             | 66.7 | 70.2             | 73.6 |
| 38               | 31   | 15.2             | 18.4 | 22.3             | 25.9 | 29.3             | 32.8 | 36.2             | 39.7 | 43.2             | 46.6 | 50.1             | 53.6 | 57.9             | 61.4 | 65.0             | 68.5 | 71.0             | 74.4 |
| 42               | 35   | 15.6             | 19.1 | 22.7             | 26.2 | 29.7             | 33.2 | 36.7             | 40.4 | 43.9             | 47.3 | 50.8             | 54.3 | 57.9             | 61.4 | 65.0             | 68.5 | 72.0             | 75.5 |
| 47               | 40   | 16.1             | 19.7 | 23.3             | 26.8 | 30.5             | 34.1 | 37.8             | 41.4 | 45.0             | 48.5 | 52.1             | 55.7 | 59.4             | 63.0 | 66.6             | 70.2 | 73.8             | 77.4 |
| 57               | 57   | 16.3             | 19.9 | 23.7             | 27.3 | 31.0             | 34.6 | 38.4             | 42.1 | 45.8             | 49.5 | 53.0             | 56.7 | 60.4             | 64.2 | 67.9             | 71.6 | 75.3             | 78.9 |
| 60               | 60   | 16.7             | 20.0 | 23.7             | 27.3 | 31.0             | 34.6 | 38.4             | 42.1 | 45.8             | 49.5 | 53.0             | 56.7 | 60.4             | 64.2 | 67.9             | 71.6 | 75.3             | 78.9 |

Standard Enclosure Heights are Stack Height Plus 7"

\*To determine size of radiator divide total heat loss in B.t.u. by 240 for steam at 215°, or by 150 B.t.u. for water at 175°. For other water temperatures see page 38.

# AMERICAN RADIATORS

## NEW MURRAY STEAM AND WATER RADIATOR RATINGS

\*Output in Sq. Ft. Equivalent Direct Radiation

Radiator No. 7 ( $7\frac{3}{4}$ " Wide)      Radiator No. 10 ( $10\frac{3}{8}$ " Wide)

| Length in Inches        |     | 12 $\frac{1}{2}$ | 15   | 17 $\frac{1}{2}$ | 20   | 22 $\frac{1}{2}$ | 25   | 27 $\frac{1}{2}$ | 30   | 32 $\frac{1}{2}$ | 35   | 37 $\frac{1}{2}$ | 40   | 42 $\frac{1}{2}$ | 45   | 47 $\frac{1}{2}$ | 50   | 52 $\frac{1}{2}$ | 55   | 57 $\frac{1}{2}$ | 60   |       |
|-------------------------|-----|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|-------|
| Unit No.                | 712 | 715              | 717  | 720              | 722  | 725              | 727  | 730              | 732  | 735              | 737  | 740              | 742  | 745              | 747  | 750              | 752  | 755              | 757  | 757              | 760  |       |
| ENCLOSURE HEIGHT INCHES | 13  | 15.3             | 18.8 | 22.2             | 25.7 | 29.3             | 32.7 | 36.2             | 39.7 | 43.2             | 46.5 | 50.1             | 53.6 | 57.1             | 60.5 | 64.0             | 67.4 | 70.9             | 74.4 | 77.9             | 81.4 |       |
| STACK HEIGHT            | 20  | 15               | 15.6 | 19.5             | 22.6 | 25.6             | 29.9 | 33.3             | 36.9 | 40.4             | 44.0 | 47.5             | 51.1 | 54.6             | 58.1 | 61.6             | 65.2 | 68.8             | 72.3 | 75.8             | 80.7 | 84.3  |
| ENCLOSURE HEIGHT INCHES | 22  | 15               | 15.6 | 19.5             | 22.6 | 25.6             | 29.9 | 33.3             | 36.9 | 40.4             | 44.0 | 47.5             | 51.1 | 54.6             | 58.1 | 61.6             | 65.2 | 68.8             | 72.3 | 75.8             | 80.7 | 84.3  |
| STACK HEIGHT            | 24  | 17               | 16.0 | 19.5             | 23.1 | 26.7             | 30.3 | 33.9             | 37.5 | 41.0             | 44.7 | 48.3             | 51.9 | 55.4             | 59.0 | 62.6             | 66.3 | 69.9             | 73.5 | 77.0             | 80.7 | 84.3  |
| ENCLOSURE HEIGHT INCHES | 26  | 19               | 16.2 | 19.8             | 23.4 | 27.1             | 30.7 | 34.3             | 38.1 | 41.7             | 45.4 | 49.0             | 52.6 | 56.2             | 59.9 | 63.6             | 67.2 | 70.8             | 74.5 | 78.1             | 81.8 | 85.5  |
| STACK HEIGHT            | 29  | 22               | 16.5 | 20.2             | 23.9 | 27.6             | 31.4 | 35.1             | 38.8 | 42.5             | 46.3 | 50.0             | 53.7 | 57.3             | 61.1 | 64.8             | 68.8 | 72.7             | 76.2 | 79.6             | 83.4 | 87.1  |
| ENCLOSURE HEIGHT INCHES | 32  | 25               | 16.7 | 20.6             | 24.3 | 28.2             | 31.9 | 35.8             | 39.5 | 43.2             | 47.0 | 50.8             | 54.6 | 58.4             | 62.2 | 65.9             | 69.7 | 73.5             | 77.3 | 81.1             | 84.9 | 88.6  |
| STACK HEIGHT            | 35  | 28               | 17.1 | 20.9             | 24.8 | 28.6             | 32.5 | 36.3             | 40.2 | 44.0             | 47.9 | 51.7             | 55.6 | 59.4             | 63.2 | 67.0             | 70.9 | 74.7             | 78.6 | 82.4             | 86.2 | 90.0  |
| ENCLOSURE HEIGHT INCHES | 38  | 31               | 17.3 | 21.2             | 25.1 | 28.9             | 32.9 | 36.9             | 40.7 | 44.6             | 48.5 | 52.4             | 56.3 | 60.2             | 64.1 | 68.0             | 71.9 | 75.8             | 79.7 | 83.6             | 87.5 | 91.4  |
| STACK HEIGHT            | 42  | 35               | 17.6 | 21.6             | 25.3 | 29.5             | 33.4 | 37.4             | 41.4 | 45.3             | 49.3 | 53.3             | 57.3 | 61.2             | 65.2 | 69.1             | 73.1 | 77.1             | 81.1 | 85.0             | 89.0 | 93.0  |
| ENCLOSURE HEIGHT INCHES | 47  | 40               | 17.9 | 22.0             | 26.0 | 30.0             | 34.1 | 38.1             | 42.2 | 46.2             | 50.2 | 54.2             | 58.2 | 62.2             | 66.4 | 70.5             | 74.5 | 78.5             | 82.6 | 86.7             | 90.7 | 94.7  |
| STACK HEIGHT            | 57  | 50               | 18.5 | 22.6             | 26.8 | 31.0             | 35.1 | 39.3             | 43.5 | 47.6             | 51.8 | 56.0             | 60.2 | 64.4             | 68.6 | 72.7             | 77.1 | 81.5             | 85.4 | 89.3             | 93.5 | 97.7  |
| ENCLOSURE HEIGHT INCHES | 67  | 60               | 18.8 | 23.1             | 27.4 | 31.7             | 35.9 | 40.2             | 44.4 | 48.7             | 53.0 | 57.2             | 61.5 | 65.8             | 70.1 | 74.4             | 78.6 | 82.8             | 87.4 | 92.0             | 96.0 | 100.0 |

| Length in Inches        |      | 12 $\frac{1}{2}$ | 15   | 17 $\frac{1}{2}$ | 20   | 22 $\frac{1}{2}$ | 25   | 27 $\frac{1}{2}$ | 30   | 32 $\frac{1}{2}$ | 35   | 37 $\frac{1}{2}$ | 40   | 42 $\frac{1}{2}$ | 45   | 47 $\frac{1}{2}$ | 50   | 52 $\frac{1}{2}$ | 55    | 57 $\frac{1}{2}$ | 60    |
|-------------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|-------|------------------|-------|
| Unit No.                | 1012 | 1015             | 1017 | 1020             | 1022 | 1025             | 1027 | 1030             | 1032 | 1035             | 1037 | 1040             | 1042 | 1045             | 1047 | 1050             | 1052 | 1055             | 1057  | 1060             |       |
| ENCLOSURE HEIGHT INCHES | 22   | 21.0             | 25.7 | 30.5             | 35.2 | 39.9             | 44.6 | 49.5             | 54.2 | 58.9             | 63.8 | 68.6             | 73.3 | 78.1             | 82.8 | 87.6             | 92.3 | 97.1             | 101.9 | 105.7            | 111.3 |
| STACK HEIGHT            | 24   | 21.2             | 25.9 | 30.7             | 35.4 | 40.3             | 45.0 | 49.8             | 54.6 | 59.4             | 64.2 | 69.0             | 73.7 | 78.5             | 83.3 | 88.1             | 92.8 | 97.6             | 102.4 | 107.2            | 112.0 |
| ENCLOSURE HEIGHT INCHES | 26   | 21.9             | 26.1 | 30.8             | 35.6 | 40.5             | 45.3 | 50.2             | 54.9 | 59.7             | 64.5 | 69.3             | 74.1 | 78.9             | 83.7 | 88.6             | 93.4 | 98.2             | 103.0 | 107.9            | 112.7 |
| STACK HEIGHT            | 29   | 22.1             | 26.3 | 31.2             | 36.0 | 40.8             | 45.8 | 50.6             | 55.4 | 60.2             | 65.0 | 69.9             | 74.8 | 79.7             | 84.5 | 89.4             | 94.2 | 99.0             | 103.8 | 108.7            | 113.5 |
| ENCLOSURE HEIGHT INCHES | 32   | 25               | 21.7 | 26.5             | 31.5 | 36.3             | 41.1 | 45.9             | 50.3 | 54.9             | 59.7 | 64.5             | 69.3 | 74.1             | 78.9 | 83.7             | 88.6 | 93.4             | 98.2  | 103.0            | 107.9 |
| STACK HEIGHT            | 35   | 33               | 25.7 | 30.5             | 35.2 | 39.9             | 44.6 | 49.5             | 54.2 | 58.9             | 63.8 | 68.6             | 73.3 | 78.1             | 82.8 | 87.6             | 92.3 | 97.1             | 101.9 | 105.7            | 111.3 |
| ENCLOSURE HEIGHT INCHES | 38   | 35               | 26.0 | 30.8             | 35.6 | 40.5             | 45.3 | 50.2             | 54.9 | 59.7             | 64.5 | 69.3             | 74.1 | 78.9             | 83.7 | 88.6             | 93.4 | 98.2             | 103.0 | 107.9            | 112.7 |
| STACK HEIGHT            | 42   | 39               | 26.3 | 31.2             | 36.0 | 40.8             | 45.8 | 50.6             | 55.4 | 60.2             | 65.0 | 69.9             | 74.8 | 79.7             | 84.5 | 89.4             | 94.2 | 99.0             | 103.8 | 108.7            | 113.5 |
| ENCLOSURE HEIGHT INCHES | 47   | 49               | 26.7 | 31.6             | 36.4 | 41.3             | 46.1 | 51.0             | 55.9 | 60.8             | 65.7 | 70.6             | 75.5 | 80.4             | 85.2 | 90.1             | 94.9 | 99.8             | 104.7 | 109.6            | 114.4 |
| STACK HEIGHT            | 57   | 50               | 27.0 | 31.7             | 36.6 | 41.5             | 46.4 | 51.3             | 56.2 | 61.2             | 66.1 | 71.0             | 75.9 | 80.8             | 85.7 | 90.7             | 95.6 | 100.5            | 105.4 | 110.3            | 115.2 |
| ENCLOSURE HEIGHT INCHES | 67   | 60               | 27.2 | 32.1             | 37.1 | 42.0             | 47.0 | 52.0             | 57.0 | 62.0             | 67.0 | 72.0             | 76.3 | 81.3             | 86.3 | 91.2             | 96.1 | 101.0            | 105.9 | 110.8            | 115.6 |

Standard Enclosure Heights are Stack Height Plus 7"

\*To determine size of radiator divide total heat loss in B.t.u. by 240 for steam at 215°, or by 150 B.t.u. for water at 175°. For other water temperatures see page 38.

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## AMERICAN RADIATORS

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### TABLE OF B.T.U. FACTORS FOR VARIOUS AVERAGE HOT WATER TEMPERATURES

#### ARCO CONVECTOR

The following table shows the average water temperature in the Arco Convector and also the output in B.t.u. per square foot equivalent direct radiation corresponding to the average water temperature. In using this table, the total heat loss in B.t.u.'s divided by the B.t.u. factor corresponding to the average water temperature will give the equivalent square feet required. The Arco Convector can then be selected directly from the rating tables on pages 31 and 32.

| Specified<br>Average Water Temperature<br>in Arco Convector | B.t.u.<br>Per Sq. Ft. |
|---|-----------------------|
| 220 degrees.....  | 227 B.t.u.            |
| 210 degrees.....  | 208 B.t.u.            |
| 200 degrees.....  | 192 B.t.u.            |
| 190 degrees.....  | 175 B.t.u.            |
| 180 degrees.....  | 158 B.t.u.            |
| 175 degrees.....  | 150 B.t.u.            |
| 170 degrees.....  | 141 B.t.u.            |
| 160 degrees.....  | 125 B.t.u.            |
| 150 degrees.....  | 107 B.t.u.            |
| 140 degrees.....  | 91 B.t.u.             |
| 130 degrees.....  | 75 B.t.u.             |

#### NEW MURRAY RADIATOR

The following table shows the average water temperature in the New Murray Radiator and also the output in B.t.u. per square foot equivalent direct radiation corresponding to the average water temperature. In using this table, the total heat loss in B.t.u.'s divided by the B.t.u. factor corresponding to the average water temperature will give the equivalent square feet required. The New Murray Radiator can then be selected directly from the rating tables on pages 35 to 37.

| Specified<br>Average Water Temperature<br>in New Murray Radiators | B.t.u.<br>Per Sq. Ft. |
|---|-----------------------|
| 220 degrees.....  | 227 B.t.u.            |
| 210 degrees.....  | 208 B.t.u.            |
| 200 degrees.....  | 192 B.t.u.            |
| 190 degrees.....  | 175 B.t.u.            |
| 180 degrees.....  | 158 B.t.u.            |
| 175 degrees.....  | 150 B.t.u.            |
| 170 degrees.....  | 141 B.t.u.            |
| 160 degrees.....  | 125 B.t.u.            |
| 150 degrees.....  | 107 B.t.u.            |
| 140 degrees.....  | 91 B.t.u.             |
| 130 degrees.....  | 75 B.t.u.             |

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# AMERICAN RADIATORS

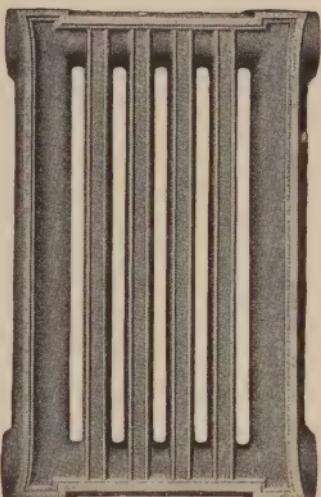
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## PEERLESS WALL RADIATORS

AMERICAN Peerless Wall Radiators are designed to give maximum heating results where radiation space is limited, as in factory work, shops, loft buildings, store-houses, garages, lobbies, corridors, stairways, bath rooms, etc.

These radiators are made in five styles, with provisions for numerous groupings; and may be assembled to meet any structural condition, fitting into restricted spaces of practically any size or shape, under windows or between them, on walls, ceilings or in skylights.

Right- and left-hand threaded hexagon nipples made of malleable iron are supplied for connecting banks of assembled radiators.



No. 7-B

Peerless Wall Radiators should always be assembled with bars vertical to secure greatest heating efficiency. The 7- and 9-foot Sections are, therefore, made in two styles: Nos. 7-A and 9-A have bars running cross-wise of the Section and are regularly tapped for connecting end to end. Nos. 7-B and 9-B have bars running lengthwise of the Section and are regularly tapped for connecting side by side.

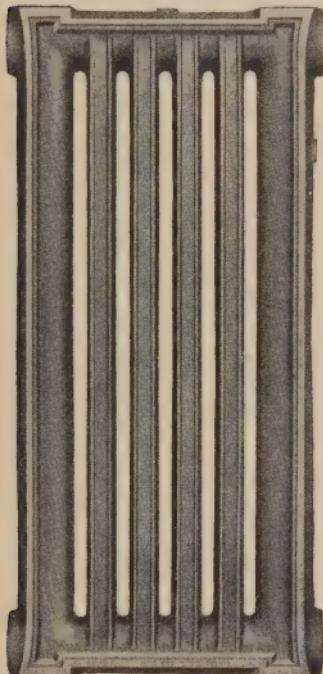
No. 5-A is made with bars running cross-wise of the Section only and is regularly tapped for connecting end to end.

On special order, the No. 5-A, 7-A and 9-A Sections can be furnished with tappings at 30, 40, 70, and 80 as illustrated on page 40.

For Ratings and Measurements of Sections and Assemblages see pages 40, 41 and 43.

For Methods of Assembling, see pages 40 to 49 inclusive.

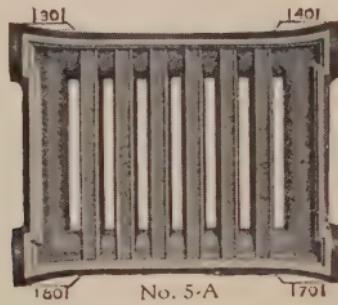
For Tappings, Connections, Directions for Ordering, and Shipping Conditions, see page 42.



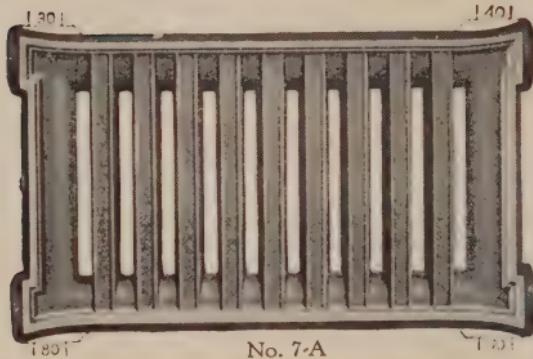
No. 9-B

# AMERICAN RADIATORS

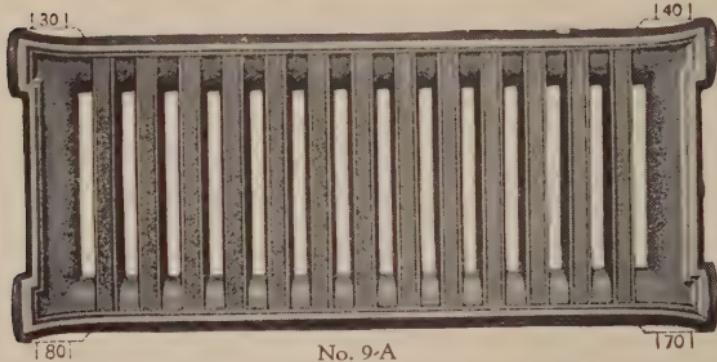
## PEERLESS WALL RADIATORS



No. 5-A



No. 7-A



No. 9-A

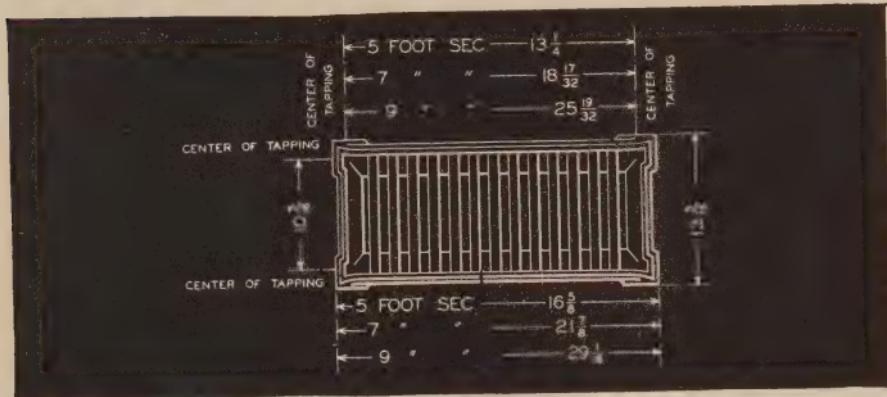
### RATING AND MEASUREMENT OF SECTIONS

| Number<br>of<br>Sections | Height<br>Inches  | Length or<br>Width<br>Inches | Thickness<br>Inches | Thickness<br>(with bracket)<br>Inches | Heating<br>Surface<br>Square Feet |
|--------------------------|-------------------|------------------------------|---------------------|---------------------------------------|-----------------------------------|
| 5-A                      | 13 $\frac{5}{16}$ | 16 $\frac{5}{8}$             | 2 $\frac{7}{8}$     | 3 $\frac{1}{2}$                       | 5                                 |
| 7-A                      | 13 $\frac{5}{16}$ | 21 $\frac{7}{8}$             | 2 $\frac{7}{8}$     | 3 $\frac{1}{2}$                       | 7                                 |
| 7-B                      | 21 $\frac{7}{8}$  | 13 $\frac{5}{16}$            | 3 $\frac{1}{16}$    | 3 $\frac{11}{16}$                     | 7                                 |
| 9-A                      | 13 $\frac{5}{16}$ | 29 $\frac{1}{16}$            | 2 $\frac{7}{8}$     | 3 $\frac{1}{2}$                       | 9                                 |
| 9-B                      | 29 $\frac{1}{16}$ | 13 $\frac{5}{16}$            | 3 $\frac{1}{16}$    | 3 $\frac{11}{16}$                     | 9                                 |

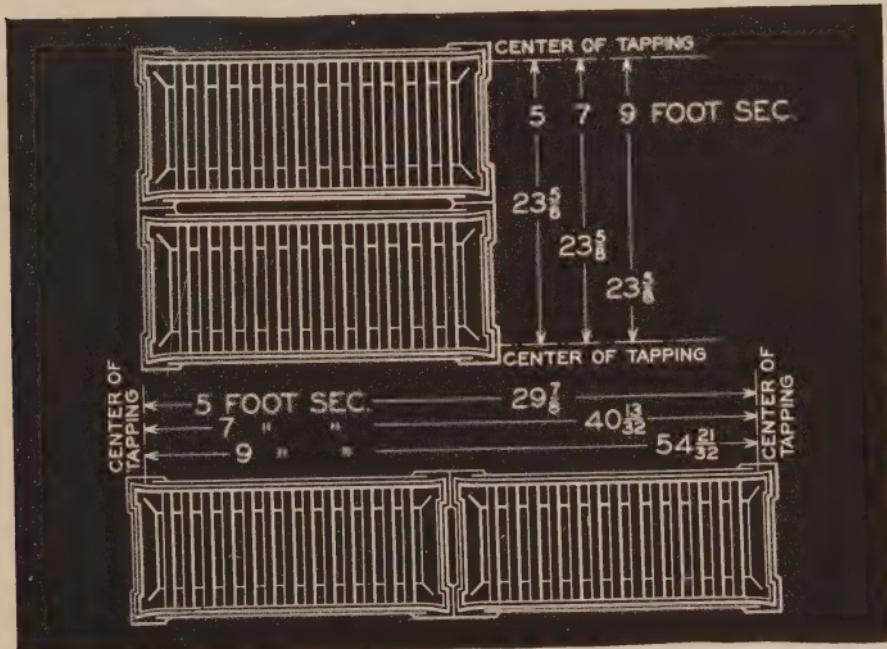
# AMERICAN RADIATORS

## PEERLESS WALL RADIATORS

### MEASUREMENTS



Above measurements apply to either "A" or "B" styles



Note.—The regular tappings of American Wall Radiators as shown on the following pages are indicated by Nos. 2, 3, 4, 5, 6, 7, 8 and 9. Nos. 20, 30, 40, 50, 60, 70, 80 and 90 indicate special tappings which can be furnished if desired and for which an extra charge will be made. Tappings are 1 1/2 inches, supply and return, and bushed as desired. Add 1 1/8 inches to length measurement for each hexagonal nipple used in assembling. See also "Directions for Ordering," page 42. For heating surface and length of space occupied, see page 43.

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# AMERICAN RADIATORS

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## DIRECTIONS FOR ORDERING

Where higher working pressures (steam or water) than 15 pounds for steam or 30 pounds for water are required, order must specifically so state. In these cases wall radiators are furnished only with outside hexagon nipples.

For convenience in handling and shipping unless otherwise ordered, No. 5-A Radiators will be assembled in stacks not exceeding 6 sections; No. 7-A Radiators in stacks not exceeding 4 sections; No. 9-A Radiators in stacks not exceeding 3 sections; and Nos. 7-B and 9-B Radiators in stacks not exceeding 7 sections.

When fitter intends to erect a stack consisting of more sections than above mentioned, or when the sections or stacks are to be set in rows or series (as shown by illustrations on pages 44 to 49), we provide a right- and left-hand threaded nipple having hexagon nut at center, enabling the fitter to easily connect the stacks or rows on the job.

Peerless Wall Radiation is tapped  $1\frac{1}{2}$ -inch supply and return and bushed as desired. It is connected with  $1\frac{1}{2}$ -inch right- and left-hand threaded internal nipples. These nipples have two heavy inside lugs so that an ordinary piece of 1-inch round iron flattened at one end the length of nipple, can be inserted to any desired point in the Radiator, and by applying an ordinary wrench to bar, the nipple can be screwed or unscrewed and one or more sections may be added or taken out independently of all the others in the stack. We can furnish these bars (Direct Radiator Wrenches) in sizes as noted on page 12.

Orders should refer to figure number showing assemblage (see pages 44 to 49). The figures shown on these pages illustrate the common ways of assembling comparatively small units, but wall radiators can be assembled in any number of sections, either longer or higher, than shown in the figures. It is our practice, however, when a greater number of sections of a given figure than exactly shown in the figure, are specified, to always build onto the length, maintaining the height as shown in the figure. The safe way in ordering is always to send sketch unless you are ordering exactly the number of sections as shown in the figure.

# AMERICAN RADIATORS

TABLE SHOWING LENGTH OF SPACE OCCUPIED—AND HEATING SURFACE FOR VARIOUS SIZES AND ASSEMBLAGES  
OF PEERLESS WALL RADIATORS

| Number of Sections | Length of Space Occupied |                         |                         |                             | Heating Surface, Square Feet |        |        |  |
|--------------------|--------------------------|-------------------------|-------------------------|-----------------------------|------------------------------|--------|--------|--|
|                    | Type 5-A<br>Feet Inches  | Type 7-A<br>Feet Inches | Type 9-A<br>Feet Inches | Type 7B, 9-B<br>Feet Inches | Type 5                       | Type 7 | Type 9 |  |
| 1                  | 1- 4 $\frac{5}{8}$       | 1- 9 $\frac{7}{8}$      | 2- 5 $\frac{1}{16}$     | 1- 1 $\frac{5}{16}$         | 5                            | 7      | 9      |  |
| 2                  | 2- 9 $\frac{1}{4}$       | 3- 7 $\frac{3}{4}$      | 4- 10 $\frac{1}{8}$     | 2- 2 $\frac{5}{8}$          | 10                           | 14     | 18     |  |
| 3                  | 4- 1 $\frac{7}{8}$       | 5- 5 $\frac{5}{8}$      | 7- 3 $\frac{9}{16}$     | 3- 3 $\frac{15}{16}$        | 15                           | 21     | 27     |  |
| 4                  | 5- 6 $\frac{1}{2}$       | 7- 3 $\frac{1}{2}$      | 9- 8 $\frac{1}{4}$      | 4- 5 $\frac{1}{4}$          | 20                           | 28     | 36     |  |
| 5                  | 6-11 $\frac{1}{8}$       | 9- 1 $\frac{3}{8}$      | 12- 1 $\frac{5}{16}$    | 5- 6 $\frac{9}{16}$         | 25                           | 35     | 45     |  |
| 6                  | 8- 3 $\frac{3}{4}$       | 10-11 $\frac{1}{4}$     | 14- 6 $\frac{3}{8}$     | 6- 7 $\frac{7}{8}$          | 30                           | 42     | 54     |  |
| 7                  | 9- 8 $\frac{3}{8}$       | 12- 9 $\frac{1}{8}$     | 16-11 $\frac{1}{16}$    | 7- 9 $\frac{3}{16}$         | 35                           | 49     | 63     |  |
| 8                  | 11- 1                    | 14- 7                   | 19- 4 $\frac{1}{2}$     | 8-10 $\frac{1}{2}$          | 40                           | 56     | 72     |  |
| 9                  | 12- 5 $\frac{5}{8}$      | 16- 4 $\frac{7}{8}$     | 21- 9 $\frac{9}{16}$    | 9-11 $\frac{13}{16}$        | 45                           | 63     | 81     |  |
| 10                 | 13-10 $\frac{1}{4}$      | 18- 2 $\frac{3}{4}$     | 24- 2 $\frac{5}{8}$     | 11- 1 $\frac{1}{8}$         | 50                           | 70     | 90     |  |
| 11                 | 15- 2 $\frac{7}{8}$      | 20- 0 $\frac{5}{8}$     | 26- 7 $\frac{11}{16}$   | 12- 2 $\frac{7}{16}$        | 55                           | 77     | 99     |  |
| 12                 | 16- 7 $\frac{1}{2}$      | 21-10 $\frac{1}{2}$     | 29- 0 $\frac{3}{4}$     | 13- 3 $\frac{3}{4}$         | 60                           | 84     | 108    |  |
| 13                 | 18- 0 $\frac{1}{8}$      | 23- 8 $\frac{3}{8}$     | 31- 5 $\frac{13}{16}$   | 14- 5 $\frac{1}{16}$        | 65                           | 91     | 117    |  |
| 14                 | 19- 4 $\frac{3}{4}$      | 25- 6 $\frac{1}{4}$     | 33-10 $\frac{7}{8}$     | 15- 6 $\frac{3}{8}$         | 70                           | 98     | 126    |  |
| 15                 | 20- 9 $\frac{3}{8}$      | 27- 4 $\frac{1}{4}$     | 36- 3 $\frac{15}{16}$   | 16- 7 $\frac{11}{16}$       | 75                           | 105    | 135    |  |
| 16                 | 22- 2                    | 29- 2                   | 38- 9                   | 17- 9                       | 80                           | 112    | 144    |  |
| 17                 | 23- 6 $\frac{5}{8}$      | 30-11 $\frac{7}{8}$     | 41- 2 $\frac{1}{16}$    | 18-10 $\frac{5}{16}$        | 85                           | 119    | 153    |  |
| 18                 | 24-11 $\frac{1}{4}$      | 32- 9 $\frac{3}{4}$     | 43- 7 $\frac{1}{8}$     | 19-11 $\frac{1}{8}$         | 90                           | 126    | 162    |  |
| 19                 | 26-                      | 34- 7 $\frac{5}{8}$     | 46- 0 $\frac{1}{16}$    | 21- 0 $\frac{15}{16}$       | 95                           | 133    | 171    |  |
| 20                 | 27- 8 $\frac{1}{2}$      | 36- 5 $\frac{1}{2}$     | 48- 5 $\frac{1}{4}$     | 22- 2 $\frac{1}{4}$         | 100                          | 140    | 180    |  |
| 21                 | 29- 1 $\frac{1}{8}$      | 38- 3 $\frac{3}{8}$     | 50-10 $\frac{5}{16}$    | 23- 3 $\frac{9}{16}$        | 105                          | 147    | 189    |  |
| 22                 | 30- 5 $\frac{3}{4}$      | 40- 1 $\frac{1}{4}$     | 53- 3 $\frac{3}{8}$     | 24- 4 $\frac{7}{8}$         | 110                          | 154    | 198    |  |
| 23                 | 31-10 $\frac{3}{8}$      | 41-11 $\frac{1}{8}$     | 55- 8 $\frac{7}{16}$    | 25- 6 $\frac{3}{16}$        | 115                          | 161    | 207    |  |
| 24                 | 33- 3                    | 43- 9                   | 58- 1 $\frac{1}{2}$     | 26- 7 $\frac{1}{2}$         | 120                          | 168    | 216    |  |
| 25                 | 34- 7 $\frac{5}{8}$      | 45- 6 $\frac{7}{8}$     | 60- 6 $\frac{9}{16}$    | 27- 8 $\frac{13}{16}$       | 125                          | 175    | 225    |  |
| 26                 | 36- 0 $\frac{1}{4}$      | 47- 4 $\frac{3}{4}$     | 62-11 $\frac{5}{8}$     | 28-10 $\frac{1}{8}$         | 130                          | 182    | 234    |  |

To these lengths add  $\frac{1}{2}$  inch for each end bushed and  $1\frac{1}{8}$  inches for each Hexagon Nipple used in assembling.

# AMERICAN RADIATORS

## PEERLESS WALL RADIATORS

### KEY TO FIGURE NUMBERING

The first numeral in each of the following Figure Numbers indicates the size of section, thus:—Figure 517 means 5 foot sections arranged in the manner as shown in sketch above the number; Figure 717 refers to 7 foot sections and to the same assemblage, and Figure 917 refers to 9 foot sections and to the same assemblage.

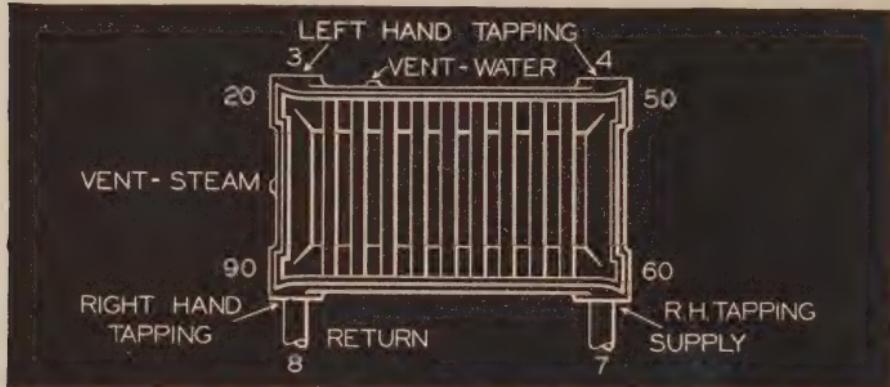


FIGURE 51, 71, or 91  
Water and One- and Two-Pipe Steam

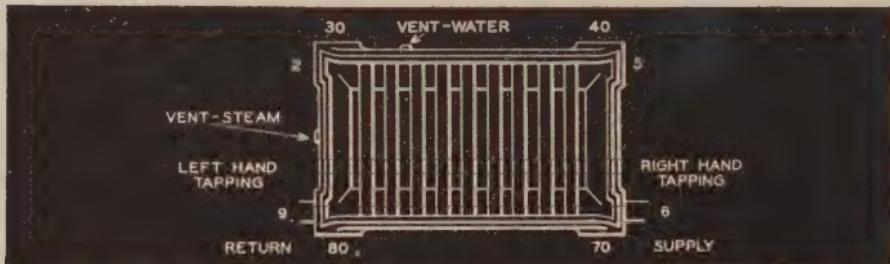


FIGURE 57, 77, or 97  
Water and One- and Two-Pipe Steam

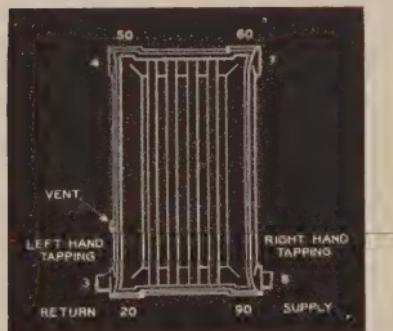


FIGURE 74 OR 94  
One- and Two-Pipe Steam

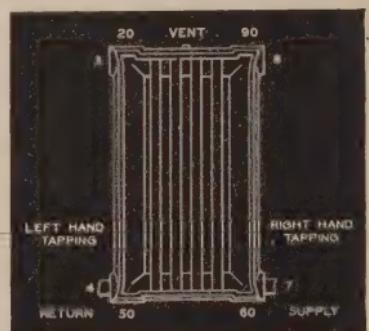


FIGURE 78 OR 98  
Water

# AMERICAN RADIATORS

## PEERLESS WALL RADIATORS

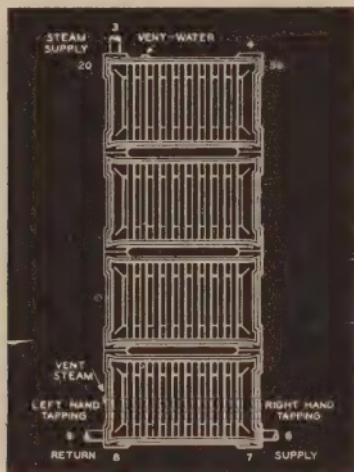


FIGURE 515, 715, or 915  
Assembled Four Sections in  
Four Tiers—Water and Two-  
Pipe Steam

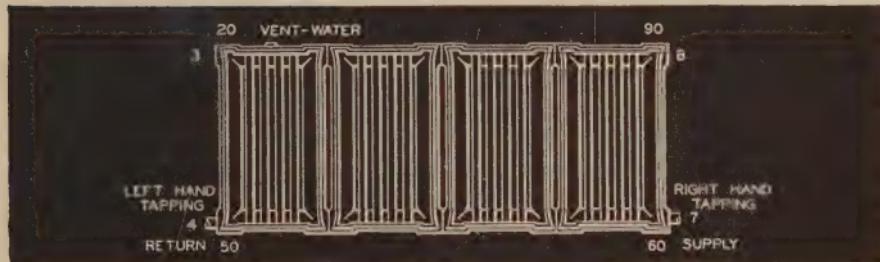


FIGURE 717 OR 917  
Assembled Four Sections in Single Tier—Water

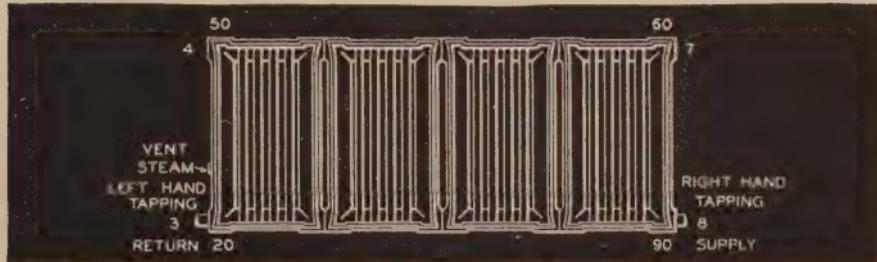


FIGURE 718 OR 918  
Sections in Single Tier—One- and Two-Pipe Steam  
See note on Tappings, page 42. Also see pages 41 and 43.

# AMERICAN RADIATORS

## PEERLESS WALL RADIATORS

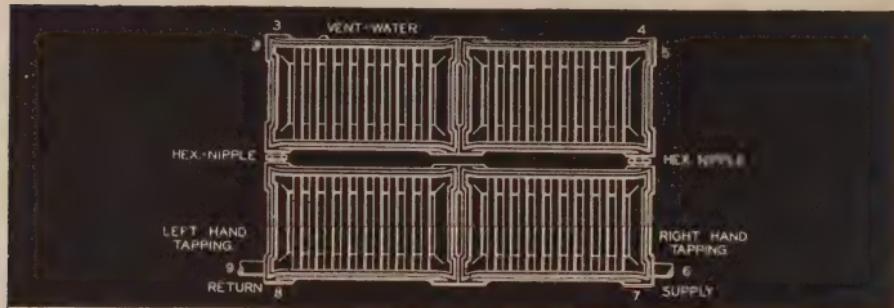


FIGURE 521, 721, or 921  
Assembled Four Sections in Two Tiers—Water

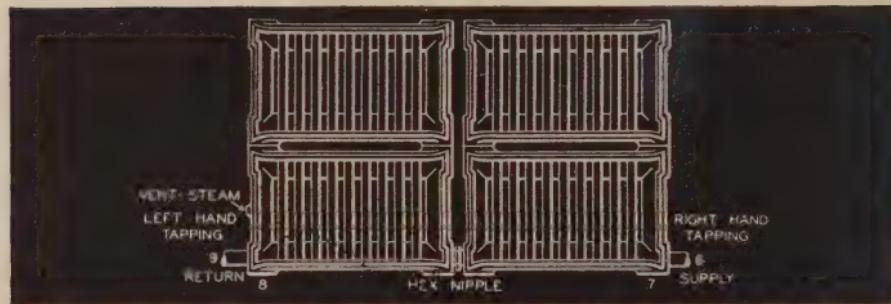


FIGURE 522, 722, or 922  
Assembled Four Sections in Two Tiers—One- and Two-Pipe Steam



FIGURE 511, 711, or 911. Assembled Three Sections in Single Tier—Water and One-and Two-Pipe Steam

See note on Tappings, page 42. Also see pages 41 and 43:

# AMERICAN RADIATORS

## PEERLESS WALL RADIATORS

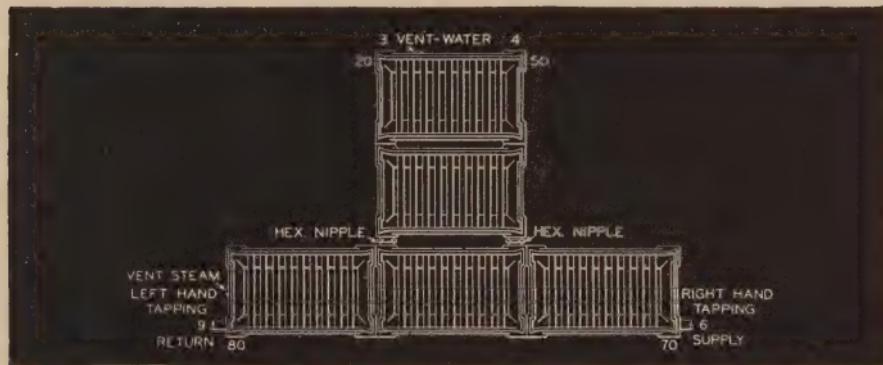


FIGURE 523, 723, or 923

Assembled Three and Two Sections with Three Tiers in Center—Water and One- and Two-Pipe Steam

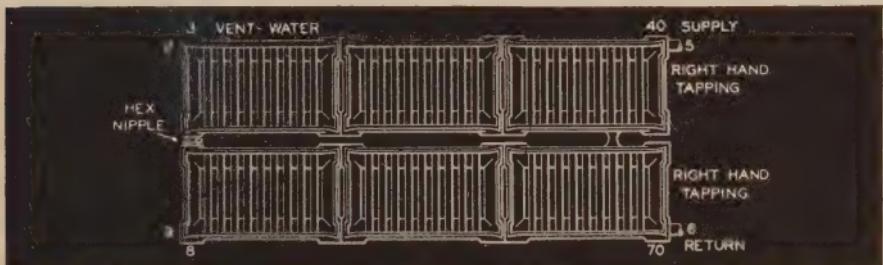


FIGURE 531, 731, or 931

Assembled Six Sections in Two Tiers—Water  
Always indicate points at which tappings are required.

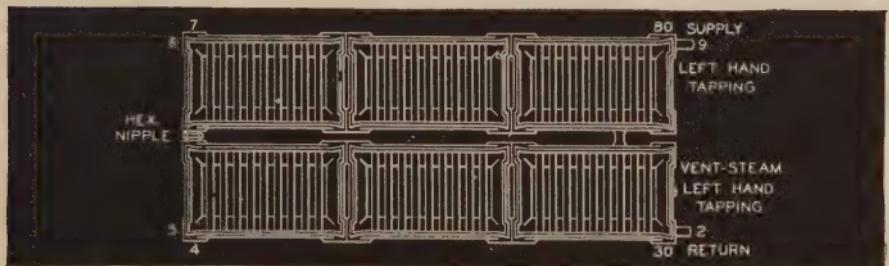


FIGURE 532, 732, or 932

Assembled Six Sections in Two Tiers—Two-Pipe Steam.  
Always indicate points at which tappings are required.

See note on Tappings, page 42. Also see pages 41 and 43.

# AMERICAN RADIATORS

# PEERLESS WALL RADIATORS

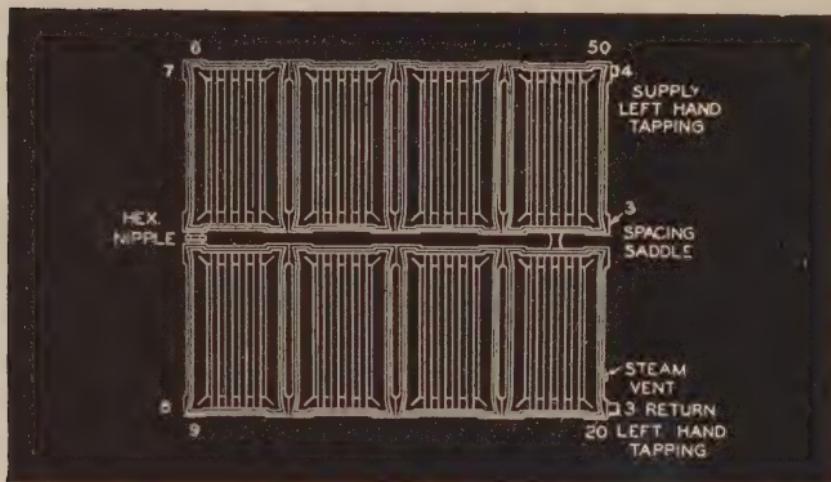
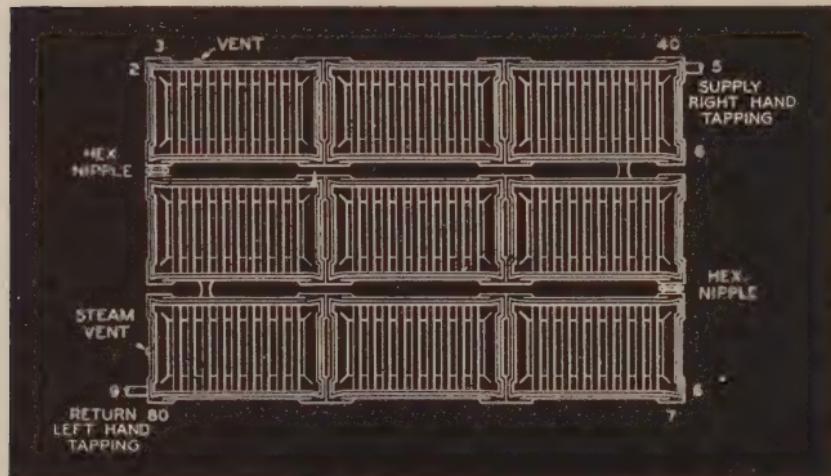


FIGURE 740 OR 940

Assembled in Eight Sections in Two Tiers—for Two-Pipe Steam—Using Spacing Saddle  
For Water, specify Figure 725.

Indicate points at which tappings are required.



**FIGURE 541, 741, OR 941**

Assembled Nine Sections in Three Tiers—Using Spacing Saddle.

Indicate points at which tappings are required.

See note on Tappings, page 42. Also see pages 41 and 43.

# AMERICAN RADIATORS

## PEERLESS WALL RADIATORS

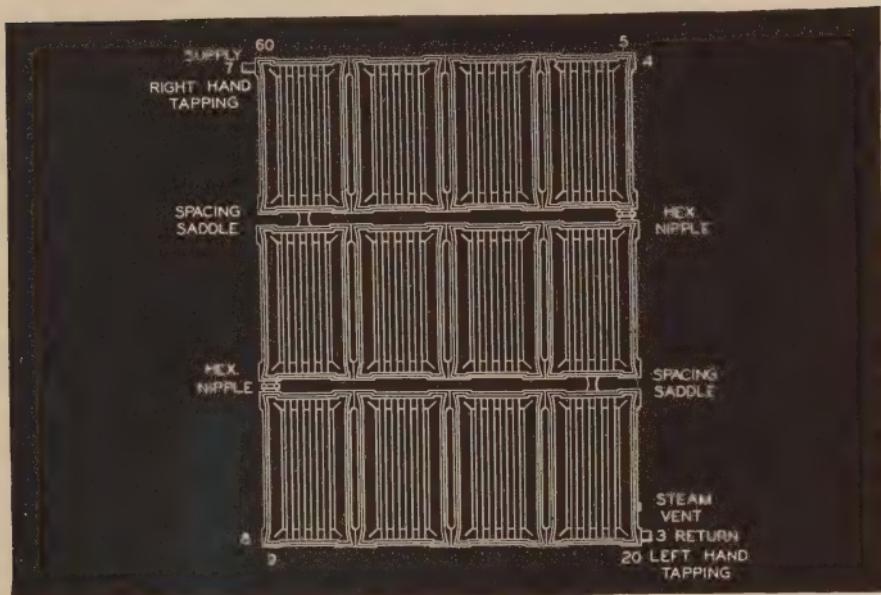
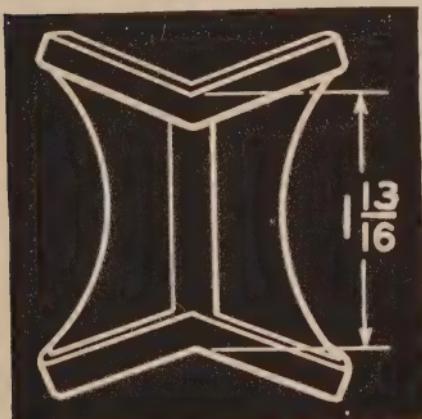


FIGURE 742 OR 942  
Assembled in Twelve Sections in Three Tiers. Using Spacing Saddles  
(see below)

Indicate points at which tappings are required.

See note on Tappings, page 42. Also see pages 41 and 43.



WALL RADIATOR  
SPACING SADDLE

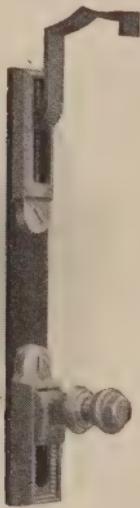
Furnished between sections in assemblages of Peerless Wall Radiators, similar to figure above. Saves using extra brackets. Furnished without charge.

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# AMERICAN RADIATORS

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## ARCO ADJUSTABLE WALL BRACKETS



Single spool bracket for  
single row of radiation



Double spool bracket for  
double row of radiation

MADE for all runs of wall radiators in factories, warehouses, theatres, railroad stations and other buildings, garages, schools, churches and residences.

By use of these brackets, which permit vertical adjustment of 2 inches, the fitter can adjust for "pitch" after they have been attached to the wall. The brackets set the outer face of the radiator  $4\frac{3}{4}$  inches from the wall.

The spools on the bottom bracket allow a free horizontal movement of the radiators, thus taking care of any difference in "roughing-in" measurements, and afford free-play for expansion and contraction. The V-shape formed by the divided spool fits the edges of Peerless Wall sections, thus keeping them securely in place.

The malleable iron finger of the top bracket is set at its highest point and then screwed down to the radiator, merely guiding it and keeping it from tipping forward.

On SPECIAL ORDER we furnish the Arco Brackets with two spools (see above)—to carry two runs of radiation separated for "A" section about  $1\frac{7}{16}$  inch, and for "B" section  $1\frac{1}{4}$  inch.

For application of new Arco Adjustable Wall Brackets to Peerless Wall Radiators and for chart showing number and location of Brackets see following pages.

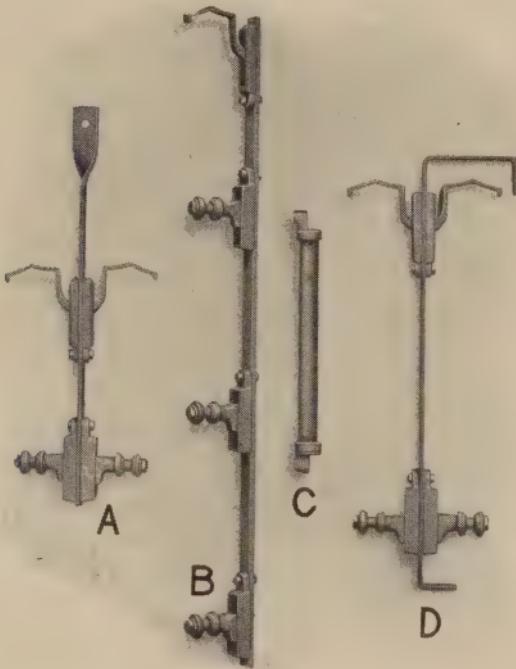
When ordering state whether for use with 5, 7, or 9 square foot sections and whether of "A" or "B" pattern, giving figure number of assemblage. See pages 42 to 49. See page 54 for detail measurements.

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# AMERICAN RADIATORS

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## ARCO ADJUSTABLE WALL BRACKETS



### ASSEMBLAGES OF ARCO ADJUSTABLE WALL BRACKETS

FIGURE "A" shows a combination Arco Adjustable Support suspended from the ceiling, permitting the duplex arrangement of the wall pattern radiators.

Figure "B" shows a multiple support used preferably with the "A" section, permitting a number of radiators to be supported one above another, the intermediate roll in each case serving the double purpose of carrying the weight of the section as well as guiding the top of the lower one.

Figure "C" shows a trapeze hanger which is used for supporting wall radiators which are hung flat and parallel to the ceiling. The end fittings are screwed into a 1-inch pipe or long nipple and the rods which extend at right angles pass through the fittings and permit a vertical adjustment.

Figure "D" shows a combination which may be used in place of the double spool support, the brackets being fastened to a bent bar and the latter bolted to the wall at the top and to the floor at the bottom.

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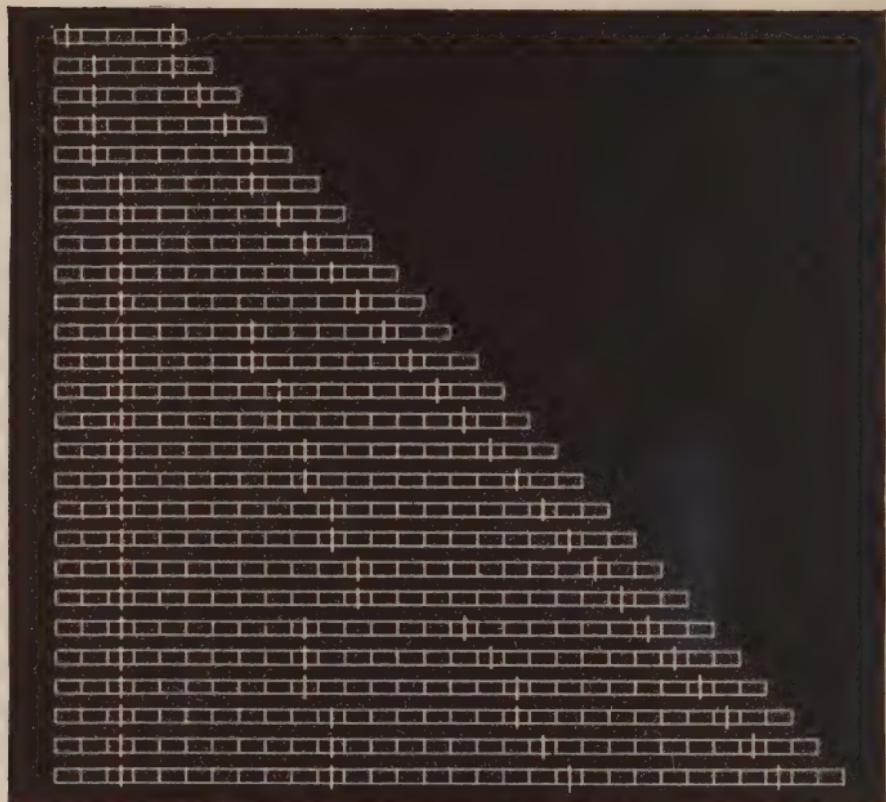
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# AMERICAN RADIATORS

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## ARCO ADJUSTABLE WALL BRACKETS



FOR SINGLE ROW

Graphic chart to show by perpendicular lines how many and where to place New Arco Adjustable Wall Brackets upon Radiators of different assemblages, from 5 to 30 sections. (See page 54.)

### FOR DOUBLE ROW OF RADIATION

The following table gives the number of double spool Arco adjustable brackets required to support properly two rows of "B" Sections Peerless Wall Radiators:

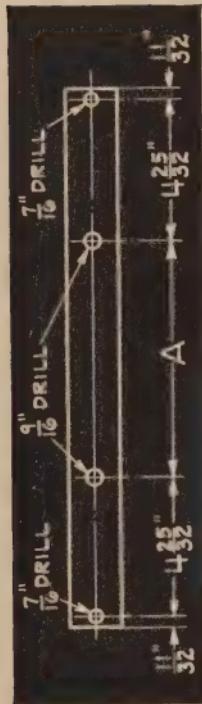
| Number of<br>Double Sections | Number of<br>Brackets |
|------------------------------|-----------------------|
| 5 to 8.....                  | 2                     |
| 9 to 14.....                 | 3                     |
| 15 to 24.....                | 5                     |
| 25 to 32.....                | 7                     |
| 33 to 45.....                | 8                     |

See Measurements of Brackets, page 54.

# AMERICAN RADIATORS

## ARCO ADJUSTABLE WALL BRACKETS

### BEARING PLATE DIMENSIONS



BEARING Plates are first fastened to the wall after which Arco Adjustable Wall Brackets are fastened to the Bearing Plates.

No. 1 Bearing Plate for 5-A, 7-A and 9-A Peerless Wall Radiators in assemblages not requiring split plates.

No. 2 Bearing Plate for 7-B Peerless Wall Radiators in assemblages not requiring split plates.

No. 3 Bearing Plate for 9-B Peerless Wall Radiators in assemblages not requiring split plates.

#### DIMENSION A

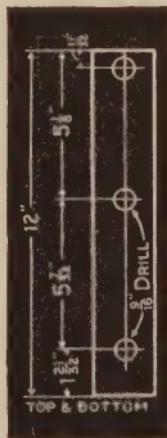
5 in. for No. 1 plate      20 1/8 in. for No. 3 plate  
13 3/4 in. for No. 2 plate

### SPLIT BEARING PLATE

For 5-A, 7-A and 9-A and 7-B and 9-B Peerless Wall Radiators as used in Assemblage Figs. 515, 715, 915, 740, 940, 541, 741, 941, 742 and 942.

#### Note

Dimensions of Bearing Plates for double row assemblies will be supplied on application.



Split Bearing Plate  
Top and bottom plates are identical

# AMERICAN RADIATORS

## ARCO ADJUSTABLE WALL BRACKETS

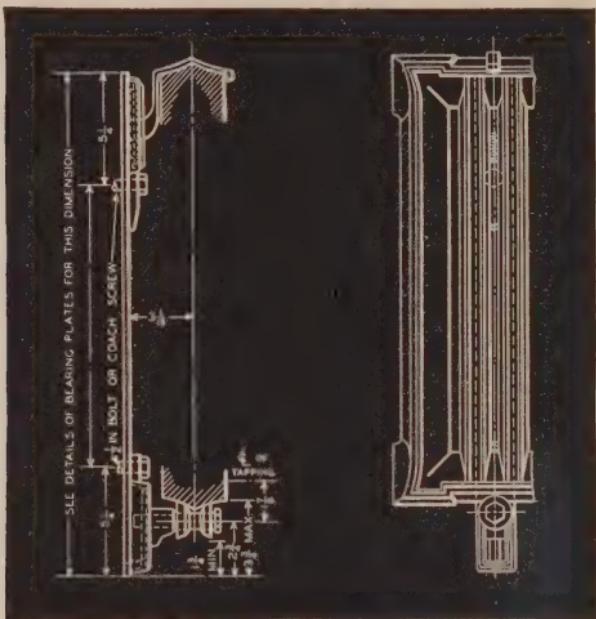


FIG. 1

FIG. 2

Figs. 1, 2 and 3 show construction details and measurements of Arco Adjustable Wall Brackets.

Fig. 1 illustrates Bracket for a single row of Peerless Wall Radiators.

Fig. 2 illustrates appearance of either Bracket when supporting Peerless Wall Radiators.

Fig. 3 illustrates Bracket for double row of Peerless Wall Radiators.

For Bearing Plate Dimensions see page 53.

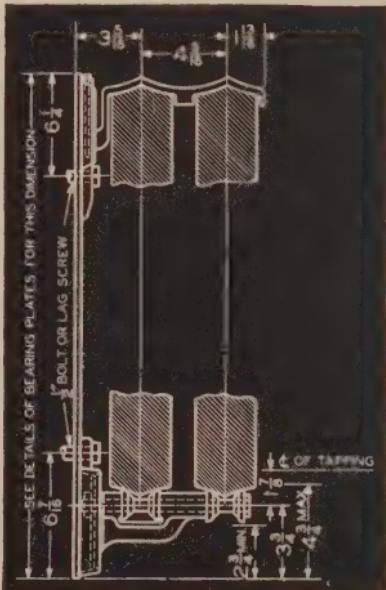


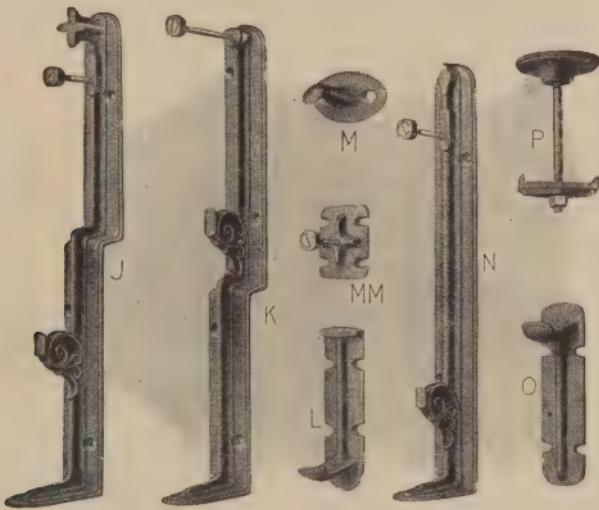
FIG. 3

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# AMERICAN RADIATORS

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## ARCO WALL AND CEILING BRACKETS



BRACKETS "J": To fit over a  $9\frac{1}{2}$ -inch high baseboard or skirting, and for supporting Wall Radiators Nos. 7-B and 9-B. With each "J" Bracket we furnish one  $\frac{1}{4}$ -inch stove bolt and one button.

Height from floor to center of lowest tapping (Supply or return):

|                  |                        |
|------------------|------------------------|
| J-1 Bracket..... | 9 $\frac{1}{2}$ inches |
| J-2 Bracket..... | 7 $\frac{1}{2}$ inches |
| J-3 Bracket..... | 5 $\frac{1}{2}$ inches |

BRACKETS "K": To fit over baseboard or skirting, and for supporting Wall Radiators Nos. 5-A, 7-A, and 9-A. With each "K" Bracket we furnish one  $\frac{1}{4}$ -inch stove bolt and one button.

Height from floor to center of lowest tapping (Supply or return):

|  |           |
|--|-----------|
| K-1 Bracket will fit over $11\frac{1}{2}$ -inch high baseboard ..... | 16 inches |
| K-2 Bracket " " $9\frac{1}{2}$ " " " .....                           | 14 inches |
| K-3 Bracket " " $7\frac{1}{2}$ " " " .....                           | 12 inches |
| K-4 Bracket " " $5\frac{1}{2}$ " " " .....                           | 10 inches |
| K-5 Bracket " " $3\frac{1}{2}$ " " " .....                           | 8 inches  |
| K-6 Bracket " " $1\frac{1}{2}$ " " " .....                           | 6 inches  |

BRACKETS "L," "O," "MM," and "M": Screwed to wall, baseboard or wainscoting. "L" and "O" Brackets are bottom supports for all sizes of Wall Radiators. "MM" and "M" Brackets are top guides to hold radiator in place. "L" and "MM" Brackets are concealed, "O" and "M" Brackets are not. One "MM" or "M" Bracket should always be provided for use with each "L" or "O" Bracket. "L," "O," and "MM" Brackets are slotted for four, and the "M" Bracket for two wood screws—not furnished by us. With each "MM" Bracket we furnish one  $\frac{1}{4}$ -inch stove bolt and one button.

BRACKET "N": Is a straight right angle Bracket, without offset, for supporting all sizes of Wall Radiators; height from floor to center of end tapping bosses,  $5\frac{1}{2}$  inches. With each "N" Bracket we furnish one  $\frac{1}{4}$ -inch stove bolt and one button.

CEILING BRACKET "P": Made of cast plate,  $3\frac{1}{2}$  inches diameter and screwed to ceiling joists by four screws—not furnished by us. The bolt furnished gives a distance of  $3\frac{1}{2}$  inches to 5 inches from bottom of Radiator to ceiling. Other length bolts can be furnished on special order.

NOTE.—In ordering buttons and stove bolts separately, state for which bracket, because of different lengths of bolts.

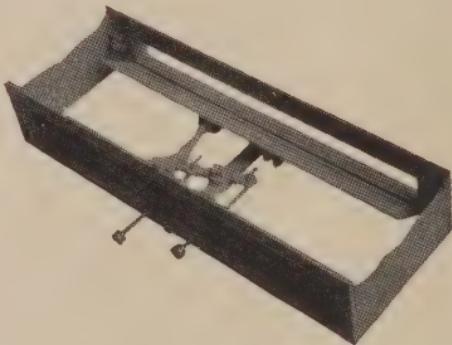
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# AMERICAN RADIATORS

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## PORTABLE VENTILATING BOX-BASE FOR VENTILATING RADIATORS

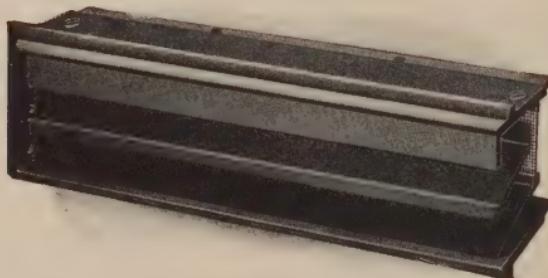
IN this interchangeable Base dampers work with reversible action. When front damper is open, back damper is closed, and vice versa. When front damper is open, air is taken from the room; when rear damper is open, air comes from outside. Furnished with opening and damper in back.



Front View—with Rear Wall Collar and Damper

Specify whether bases are desired with regular inlet collar in rear as above shown or for inlet to come through floor.

## WALL BOXES



THESE are substantially constructed with heavy enamel finish and their angle slats and inside brass-wire screen render them storm and insect-proof. Made in two sizes.

LARGE Box, exclusive of flange, 8x25 inches; including rib or flange,  $8\frac{7}{8} \times 25\frac{1}{2}$  inches; depth of box from front flange to rear, 4 inches. Collar at the rear,  $7\frac{7}{8} \times 24\frac{5}{8}$  inches.

SMALL Box, exclusive of flange, 5x17 $\frac{1}{2}$  inches; including rib or flange,  $5\frac{5}{8} \times 18$  inches; depth of box from front flange to rear, 4 inches. Collar at rear,  $4\frac{7}{8} \times 17\frac{1}{8}$  inches.

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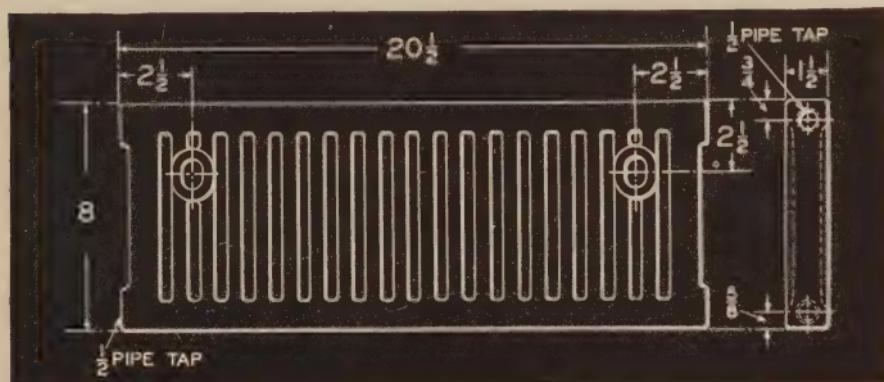
# AMERICAN RADIATORS

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## PEERLESS BATHROOM RADIATOR



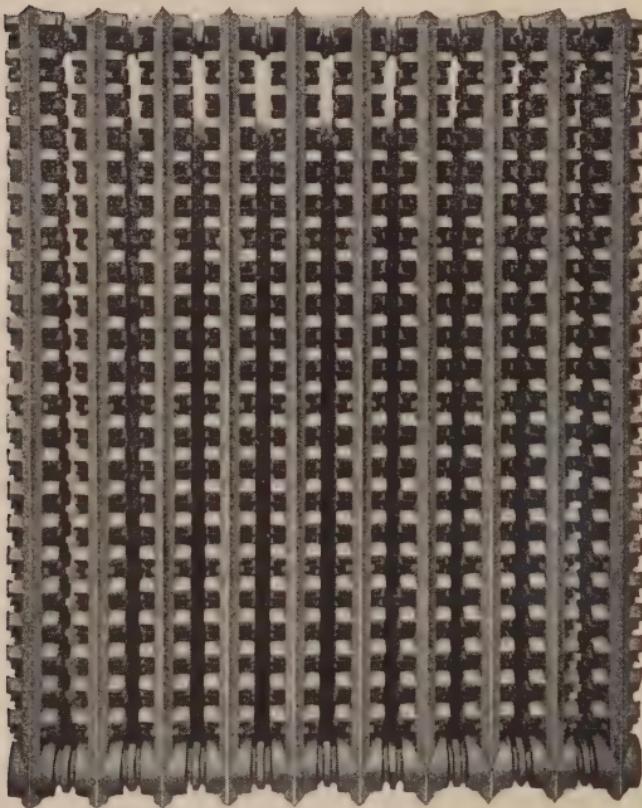
THE Peerless Bathroom Radiator is designed especially for the warming of modern bathrooms, such as are found in hotels, apartments, etc. The space available for radiation in such rooms is so limited that the Peerless Bathroom Radiator fills a long felt need. This efficient radiator is easily fastened to the wall under the wash basin by simple lag screws or hooks. When harmoniously enameled its appearance is most pleasing.



Heating Surface,  $3\frac{1}{2}$  square feet. Wall Area, 1.15 square feet.  
Two  $\frac{1}{2}$ -inch Tappings.

## VENTO CAST IRON HEATER

FOR FAN OR BLOWER WORK



JUST as American Radiators have become the standard for direct radiator heating, so also has the Vento Cast Iron Hot Blast Heater become the standard of merit for blower and ventilation systems. For this heater is constructed according to scientific principles and the same exacting standards of manufacture that make all American Radiators and IDEAL Boilers so acceptable and popular the world over. Vento heaters are

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## AMERICAN RADIATORS

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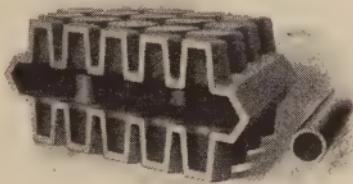
furnishing satisfactory heating and ventilating service in thousands of large and small buildings, such as schools, churches, stores, banks, hospitals, hotels, clubs, theatres auditoriums, libraries, etc.—wherever people are accustomed to congregate in large numbers.

These heaters are unequaled in operating efficiency. Internal currents of steam or hot water carry the heat through the hollow iron heating spaces shown in the illustration, while the exterior surfaces are very carefully designed to effect the maximum rubbing contact with the air and therefore the greatest possible heat transfer per square foot of surface. The warmed air is distributed at comfortable temperatures through the building.

Vento Heaters are shipped in blocks of sections, easily handled. Sections consist of only three parts, one main casting and two hexagon nipples. They may be carried through doors, windows or ordinary openings and may be quickly assembled. A considerable saving in labor is thus effected.

And the sections do not corrode or rust by the action of steam, water or air, but serve efficiently throughout the life of the building in which they are installed. In durability, as in efficiency, Vento Cast Iron Heaters are the best investment for property owners.

Complete physical and technical data is contained in booklet entitled "Engineers' Data on Vento Heaters."



Comparative Cross-Section View of  
VENTO section and a 1-inch pipe

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# AMERICAN RADIATORS

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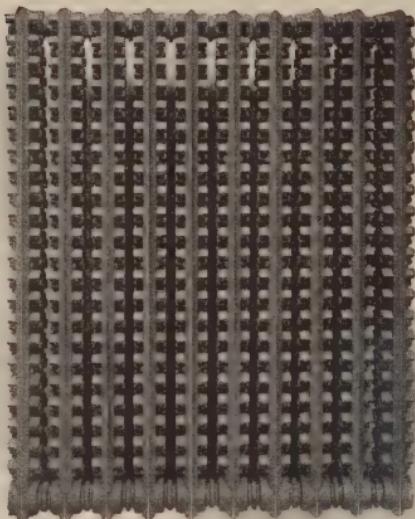
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## VENTO HEATERS—CAST IRON

FOR FAN OR BLOWER WORK



Regular Section



Front View of Ten-Section Stack



Cross Section

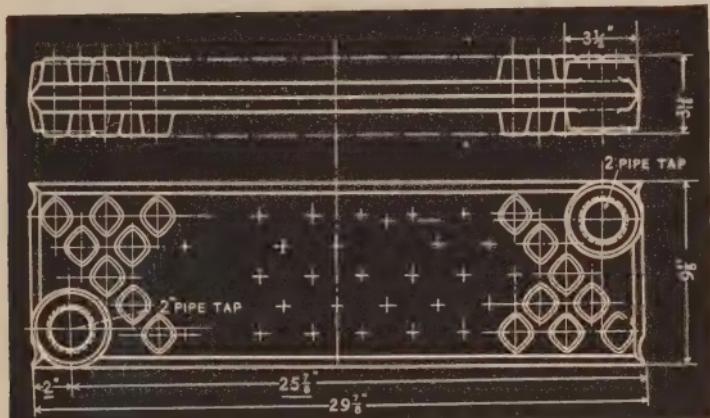
Sections are easily handled and transported and may be carried through doors or windows of any building, and can then be assembled in compact, complete heaters. The equivalent pipe coil stacks are cumbersome and difficult to handle and transport.

All details given in special catalogs.

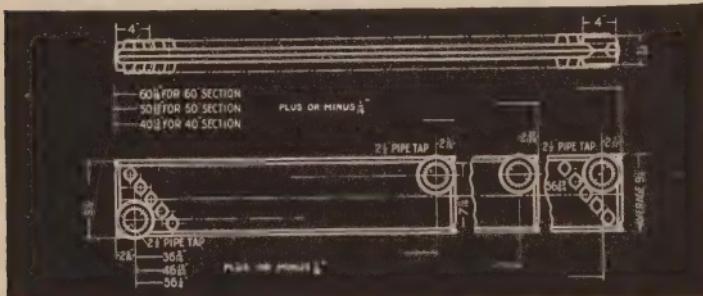
# AMERICAN RADIATORS

## VENTO HEATERS MEASUREMENTS

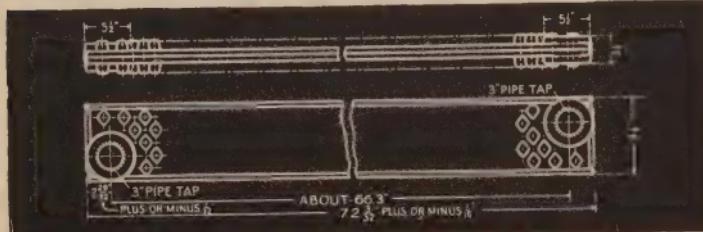
| Regular Sections | Square Feet per Section | Height             | Width           |
|------------------|-------------------------|--------------------|-----------------|
| 30 inch          | 8.0                     | 30                 | 9 $\frac{1}{8}$ |
| 40 inch          | 10.75                   | 41 $\frac{1}{64}$  | 9 $\frac{1}{8}$ |
| 50 inch          | 13.5                    | 50 $\frac{29}{32}$ | 9 $\frac{1}{8}$ |
| 60 inch          | 16.0                    | 60 $\frac{11}{16}$ | 9 $\frac{1}{8}$ |
| 72 inch          | 19.0                    | 72                 | 9 $\frac{1}{8}$ |



30-Inch Vento Section



40, 50 and 60-Inch Vento Sections



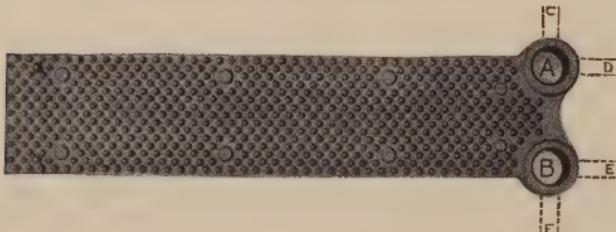
72-Inch Vento Section

# AMERICAN RADIATORS

## PERFECTION PIN FOR STEAM AND WATER

Heating Surface 10 Sq. Ft.

THREADED NIPPLE CONNECTIONS



"Standard" Size, Water End Section

MEASUREMENTS: Length overall (including nipple hubs),  $36\frac{1}{4}$  inches. Height overall (at nipple hubs),  $9\frac{13}{16}$  inches; section only,  $7\frac{1}{2}$  inches. Thickness of section (at nipple hubs),  $1\frac{15}{16}$  inches; slab only,  $1\frac{5}{8}$  inches; including pins,  $2\frac{9}{16}$  inches. Center to center distance in stack,  $2\frac{3}{4}$  inches. On Special Order, we can supply nipples to make center to center distances of  $3, 3\frac{1}{4}, 3\frac{1}{2}$  or  $3\frac{3}{4}$  inches.

Heating Surface 15 Sq. Ft.



"Extra Large" Size, Steam End Section

MEASUREMENTS: Length overall (including nipple hubs),  $36\frac{1}{4}$  inches. Height overall (at nipple hubs), 14 inches. Height of section only,  $11\frac{1}{2}$  inches. Thickness of section (at nipple hubs),  $2\frac{1}{16}$  inches; slab only,  $1\frac{5}{8}$  inches; including pins,  $2\frac{9}{16}$  inches. Center to center distance in stack,  $2\frac{3}{8}$  inches. On Special Order, we can supply nipples to make center to center distances of  $3\frac{1}{8}, 3\frac{3}{8}, 3\frac{5}{8}$  or  $3\frac{7}{8}$  inches.

### BOTH SIZES

CONSTRUCTION: Both "Standard" and "Extra-Large" sections are made in distinctive patterns for Steam and Water. The Steam patterns have one connection or passageway for Steam—the Water patterns have two connections or waterways.

TAPPINGS: 2 inches right-hand on one side, left-hand on other side. Unless otherwise ordered the inside tappings in bushings will be right-hand. Air Valve Tap— $\frac{5}{8}$ -inch.

SPECIAL TAPPINGS: If other than regular tappings ("A" and "B" for water and "B" only for steam) are desired, we can furnish on the Standard size section special tappings  $1\frac{1}{4}$  inches or smaller, at "C," "F," "D," and "E," and for steam section 2 inches or smaller at "A." On the Extra Large section, can furnish special tappings 2 inches or smaller at "B," "C," "D," and "F," and at "A" on the steam section.

CONNECTIONS: Extra-heavy 2-inch right and left threaded nipples with hexagon nut in center.

SHIPMENTS: Water sections separate unless ordered assembled in stacks of 5 or 6 sections;

Steam sections cannot be safely shipped assembled and are therefore shipped knocked down. Sufficient nipples are shipped to assemble.

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# AMERICAN RADIATORS

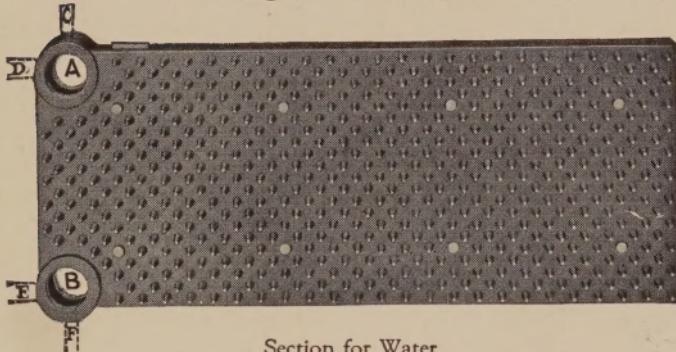
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## SANITARY SCHOOL PIN

FOR STEAM AND WATER

Heating Surface 20 Sq. Ft.



Section for Water

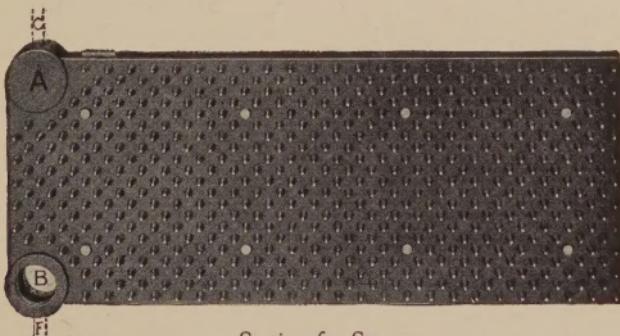
**CONSTRUCTION:** These sections are made in distinctive patterns for Steam and Water. The Steam patterns have one connection or passageway for steam. The Water pattern has two connections or waterways.

**MEASUREMENTS:** Length overall with regular tappings,  $36\frac{1}{8}$  inches; when tapped at "D" or "E,"  $36\frac{3}{8}$  inches. Height overall with regular tappings,  $15\frac{1}{4}$  inches; when tapped at "C" or "F,"  $15\frac{1}{2}$  inches; slab only,  $13\frac{1}{8}$  inches. Thickness of section (through nipple hubs),  $2\frac{5}{8}$  inches; slab only,  $1\frac{1}{2}$  inches; including pins,  $3\frac{7}{16}$  inches. Center to center distances in stack, 4 inches. On Special Order, we can supply nipples to make center to center distances of  $3\frac{3}{4}$ ,  $4\frac{1}{4}$  or  $4\frac{1}{2}$  inches.

**TAPPINGS:** 2 inches, right-hand on supply end; left-hand on return end. Unless otherwise ordered the inside tappings of bushings will be right-hand. Air Valve Tap— $\frac{3}{8}$ -inch.

**CONNECTIONS:** Extra-heavy 2-inch right and left threaded nipples with hexagon nut at center.

**SHIPMENTS:** Steam sections always separate; Water sections separate, but when so specified Water sections can be shipped in five or six section stacks. Sufficient nipples are sent to assemble.



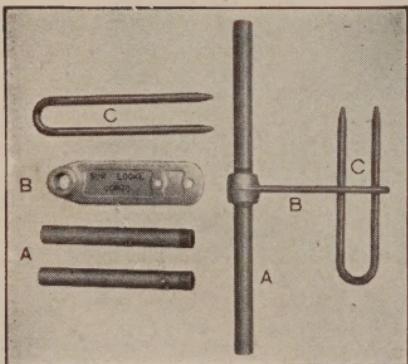
Section for Steam

**NOTE, Special Tappings:** If other than regular tappings ("A" and "B" on water section and "B" only on steam section) are desired, we can furnish special tappings 2 inches or smaller at "C," "D," "E," and "F," and also at "A" on the steam section.

# AMERICAN RADIATORS

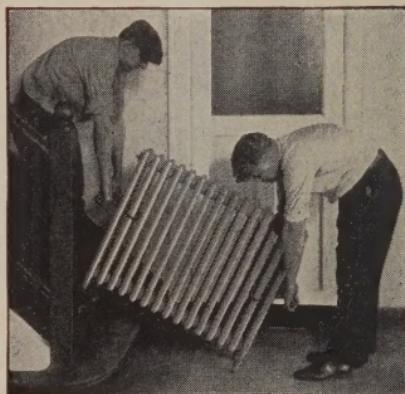
## Sur-Locke Radiator Carrier

Handy — No Straining — Avoids Accidents —  
Saves Time and Labor—Inexpensive



Only 4 parts. Can be assembled in a minute  
ready for use

The Sur-Locke Radiator Carrier supplies a long-felt want because it is the simplest, safest and easiest way ever devised for carrying or moving radiators. The Sur-Locke is one of the most useful tools a heating contractor can buy; it should be always available in the shop, and in every tool kit. The price is low and the time and trouble saved will pay for the device in a very short time.



Illustrating how Sur-Locke Carriers are used to carry radiators upstairs

### HOW IT WORKS:

The Tongue is inserted from one end into and between the loops of the first and second sections of the Radiator. Then the Bent "U" Pin is inserted sideways over the outside loop of second section, so that the 2 points engage the 2 holes near end of Tongue. Push in the Pin as far as it will go. (See illustration at right above.)

When leverage is applied to the Handles, the Tongue and Pin will grip the sections rigidly, so that Radiator can be lifted and carried. By releasing the leverage the Carrier may be moved up or down, without detaching any parts. Packed and shipped unassembled, two to a set, in a neat paper carton.



